

## Member candidates of the star clusters from LAMOST DR2 data

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**Abstract** In this work, we provide 2189 photometric- and kinematic-selected member candidates of 24 star clusters from the LAMOST DR2 catalog. We perform two-step membership identification: selection along the stellar track in the color-magnitude diagram, i.e., photometric identification, and the selection from the distribution of radial velocities, i.e. the kinematic identification. We find that the radial velocity from the LAMOST data are very helpful in the membership identification. The mean probability of membership is 40% for the radial velocity selected sample. With these 24 star clusters, we investigate the performance of the radial velocity and metallicity estimated in the LAMOST pipeline. We find that the systematic offset in radial velocity and metallicity are  $0.85 \pm 1.26 \text{ km s}^{-1}$  and  $-0.08 \pm 0.04 \text{ dex}$ , with dispersions of  $5.47^{+1.16}_{-0.71} \text{ km s}^{-1}$  and  $0.13^{+0.04}_{-0.02} \text{ dex}$ , respectively. Finally, we propose that the photometric member candidates of the clusters covered by the LAMOST footprints should be assigned higher priority so that more member stars can be observed.

**Key words:** open clusters and associations: general — stars: statistics — catalogs — surveys — methods: data analysis

## 1 INTRODUCTION

Star clusters are important constituents of galactic population and are natural laboratory of stellar evolution (Oswalt & Gilmore 2013) since their fundamental astrophysical parameters, e.g. distance and age, could be determined more accurately than field stars. They are also used as the calibrators of the stellar astrophysical parameters for field stars in large surveys e.g. SDSS (Lee et al. 2008; Xue et al. 2014) and LAMOST (Xiang et al. 2015). As a kind of important probes, they are often used to trace the global structure, kinematics, and evolution of the Milky Way (Searle & Zinn 1978; Bica et al. 2003a; Chen & Hou 2009; Frinchaboy et al. 2013).

However, these advantages rely on efficient identification of the star clusters and their member stars. Member star candidates can be roughly determined in photometry (e.g., Bica et al. 2003a,b; Dutra et al. 2003; Froebrich et al. 2007; Bukowiecki et al. 2011). The reliability of the memberships can be improved after including proper motion data in the identification (Conrad et al. 2014; Kharchenko et al. 2012, 2013). Stellar parameters and radial velocities derived from the spectroscopic data can also be added to considerably improve the identification of the membership (Frinchaboy & Majewski 2008;

Kordopatis et al. 2013). However, unlike the photometry and proper motion data, the sampling of the spectra is usually very low and thus the identification of the member stars of clusters may not be efficient in the spectroscopic surveys.

The sampling issue is now partly solved by the LAMOST survey, which has internally released about 3.8 million stellar spectra, making it the largest database of the stellar spectra in the world. The LAMOST telescope can simultaneously observe 200 objects per square degree, which is a factor of 2 higher than SDSS. Thanks to its high efficiency, LAMOST will essentially completely observe the stars brighter than  $r = 14$  mag in the covered sky area of  $\sim 20000$  square degrees. The sampling rate for stars brighter than  $r = 17.8$  mag is also high, compared with other surveys. On the other hand, LAMOST provides the radial velocity with accuracy at about  $5 \text{ km s}^{-1}$  and measures  $[\text{Fe}/\text{H}]$  with accuracy better than 0.2 dex (Luo et al. 2015; Gao et al. 2015). The high sampling rate with the accurate stellar parameter estimates is helpful for increasing the efficiency of the identification of the cluster members. However, because the limit of the mechanic design of the focal plane, LAMOST cannot concentrate more than 3 fibers within a small region as the typical core radius (a few arcmin) of a star cluster. Hence, although its survey footprints have covered  $\sim 457$  star clusters by now, it is very hard to perform a complete targeting for any individual cluster.

Even though the completeness of the membership of these hundreds of star clusters is low, it is still fairly valuable in the sense of 1) the calibration for both the fundamental parameters of the star clusters and the stellar parameters and distance estimates for the field stars observed by LAMOST survey (Xiang et al. 2015; Carlin et al. 2015) and 2) mapping the chemo-dynamical evolution of the Milky Way (Hou et al. 2013).

For these purposes, we present the technique of the identification of the membership of clusters by combining the photometric with the LAMOST spectroscopic information.

The paper is organized as below. In Sect. 2 we specify the data used in this work. In Sect. 3 we describe the details of our method to determine the probability of membership. In Sect. 4 we present the results. Discussions are raised in Sect. 5 and conclusions are drawn in Sect. 6.

## 2 DATA

### 2.1 LAMOST Spectroscopic Survey

LAMOST telescope, also called Guo Shou Jing telescope, is a 4-meter reflected Schmidt telescope with a 5-degree field of view, on which 4000 fibers are installed. The spectral resolution is about  $R = 1800$  covering all optical wavelength (Cui et al. 2012; Zhao et al. 2012). The LAMOST survey contains both the LAMOST ExtraGalactic Survey (LEGAS) and the LAMOST Experiment for Galactic Understanding and Exploration survey (LEGUE, Deng et al. 2012; Smith et al. 2012; Liu et al. 2014).

The targets of LAMOST survey are selected from several catalogs, including UCAC4 (Zacharias et al. 2013), Pan-STARRS 1 (Tonry et al. 2012), Xuyi Galactic anti-center survey (Yuan et al. 2015), and 2MASS (Skrutskie et al. 2006). The apparent magnitude covers from  $r = 10$  to 17.8 mag. The photometric input catalog can be used as the complementary data to present the observed star cluster in the color-magnitude diagram.

The LAMOST DR2 data, which includes observations from autumn 2011 to summer 2014, are used in this work. The complete photometric data covering each plate observed by LAMOST are also used to construct the color-magnitude diagram for the star clusters.

### 2.2 The LAMOST Stellar Parameter Pipeline (LASP)

The LAMOST DR2 catalog contains 4,136,482 targets, including 3,784,461 stars, 37,206 galaxies, 8,630 QSOs, and 306,185 unknown objects. For over half of the stars (2,207,788), the *LASP* has successfully extracted stellar parameters, i.e.  $[\text{Fe}/\text{H}]$ ,  $\log g$ ,  $T_{\text{eff}}$ , and radial velocity (RV), from their spectra.

The core of *LASP* is the ULYSS algorithm (Y. Wu et al. 2011b). To optimize the solutions and shorten the running time, an initial guess is firstly estimated by correlation function initial (CFI) method

in the pipeline (Luo et al in prep.). ULySS starts with the initial guess and iteratively searches for the optimized stellar parameters in two parallel procedures with the non-normalized and the normalized (pseudo-continuum removed) spectra, respectively. The derived parameters with small difference between the non-normalized and normalized spectra are accepted. Meanwhile, only high  $g$  band signal-to-noise ratio (SNR) spectra of A-type stars (SNR > 40), and F-, G-, and K-type stars (SNR > 6 for dark night and SNR > 15 for bright night) are processed by *LASP*. The typical error for  $T_{\text{eff}}$ ,  $\log g$ ,  $[\text{Fe}/\text{H}]$ , and RV are 140 K, 0.22 dex, 0.12 dex and 5 km s<sup>-1</sup> respectively (Gao et al. 2015).

### 2.3 Star Cluster List

We adopt the MWSC (Milky Way Star Cluster) catalog (Kharchenko et al. 2012, 2013) as the target list of star clusters since it provides homogeneous parameters of Milky Way star clusters and is complete in the observed volume of LAMOST. Thus we use the MWSC radius parameters for star clusters, i.e.,  $r_0$  in MWSC is the angular radius of the core of the cluster, and  $r_2$  (hereafter rewritten as  $r_c$ ) stands for the angular radius of the cluster. A star cluster is covered by LAMOST survey if the number of the LAMOST observed stars located within  $2r_c$  of the cluster is larger than zero. In total, 457 star clusters, including open clusters, globular clusters, stellar associations, and moving groups, are found being covered by the LAMOST DR2 data.

## 3 METHOD

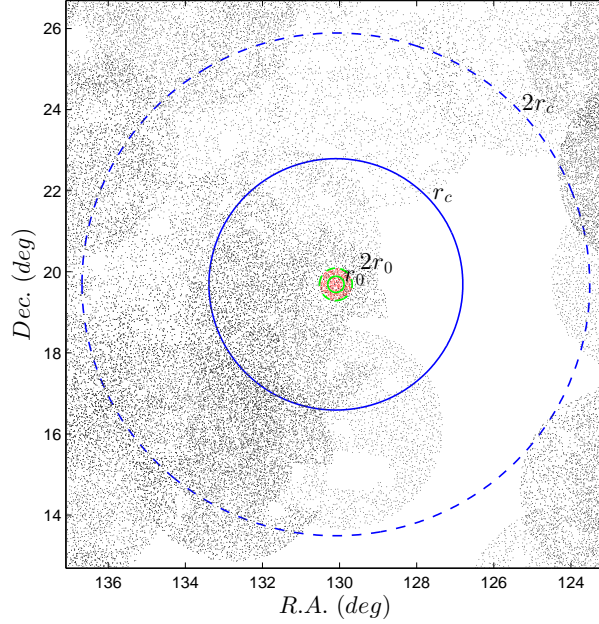
For each star cluster, the identification of membership is two-fold. First, we select the stars closed to the stellar track in the color-magnitude diagram. Then, we improve the identification in the distribution of the radial velocity. After the identification, we check out the reliability of the candidates from position and proper motion diagram.

### 3.1 Selection in color-magnitude diagram

We map all the stars observed by LAMOST located within  $2r_c$  (the dashed blue circle in Fig 1) on the  $g - r$  vs.  $r$  diagram in the left panel of Fig 2 and the UCAC4 / Pan-STARRS1 data within  $2r_0$  (the dashed green circle in Fig 1) in the right panel taking NGC 2632 (M44) as an example. Fig 2 4 for other star clusters can be found in appendix.

It is noted that the samples show hard cuts at  $r=14$ , 16, and 19 mag, which is because the selection function of the targets truncates the data at these positions for bright, middle, and faint plates, which are assigned short, intermediate, and long exposure time, respectively (Yuan et al. 2015). LAMOST observes the bright and middle plates mostly in bright / gray nights, but observes the faint plates only in clear dark nights. Hence, the bright and middle plates have more opportunity to be observed than the faint ones. Therefore, the target selection function prefer more brighter stars than the fainter ones ( for more details, see Yuan et al. 2015). However, this does not means that, in a specific line of sight, the bright stars are always more frequently observed than the faint ones. The weather and the survey strategy may also alter the distribution of the  $r$  magnitude in the observed samples. The region around NGC 2632, for instance, does not gain more bright plate observations. We point out that the specific selection effect function in the LAMOST input catalog would not significantly affect the identification of the stellar tracks of the star clusters in the color-magnitude diagram, since there are sufficient stars located within the core radii of the star clusters helping to lock down the stellar tracks. Indeed, it can be clearly seen in the right panel of Fig 2, in which the stars coming from the central part of the cluster show a prominent stellar track.

The stellar track is strengthened by overlapping a PARSEC synthetic stellar track (Bressan et al. 2012) with same metallicity, age, interstellar extinction, and distance as NGC 2632. Stars located within  $2r_c$  and width of  $\sim 0.5$  mag in  $g - r$  around the stellar track are selected as the photometric member candidates. For those star clusters without MWSC  $[\text{Fe}/\text{H}]$  value, we assume  $[\text{Fe}/\text{H}]$  is 0 (solar-like) and select regions by according to photometry data to avoid the misleading by the problematic  $[\text{Fe}/\text{H}]$ .



**Fig. 1** The sky atlas around the sample cluster NGC2632 (M44). The green (blue) solid line circle represent  $r_0$  ( $r_c$ , definitions are in text). Each dashed line circle has a radius of twice that of the corresponding solid line circle. The red dots indicate UCAC4 / Pan-STARRS1 data in green dashed line circle (within  $2r_0$ ) and black dots denote stars observed by LAMOST. The red dots in the green dashed circle are selected to highlight the intrinsic stellar locus of the cluster in the subsequent procedures (the red dots in Fig. 2).

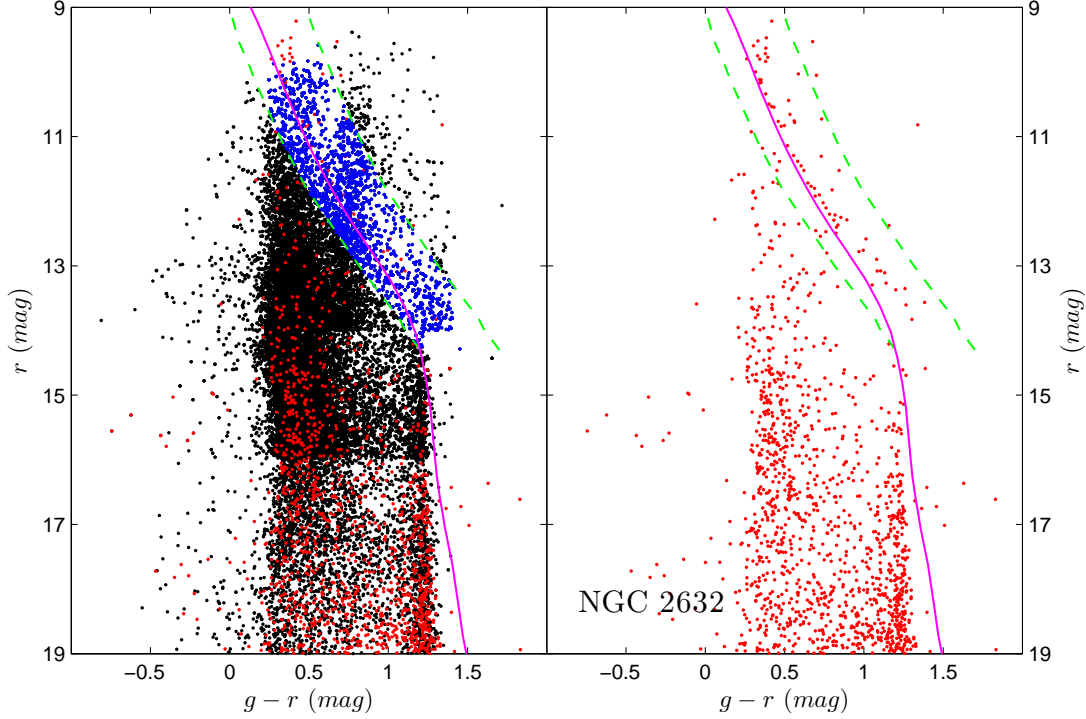
However, the turning point magnitude, the distance and  $\log t$  are still information for us. In most cases,  $2r_c$  is a quite large region compared to the core radius of the star clusters. We use such a large radius to select the candidate because 1) the LAMOST fibers are very difficult to be multiply assigned in a very small region as mentioned before; 2) the membership in the outskirts region of the star clusters are particularly of interest which sheds light of the dynamical evolution of the stellar systems. Note that, after this procedure the peculiar stars, e.g. the blue stragglers and binary stars may be lost, which is a price we have to pay for the improvement of the efficiency of member star selection. We then apply this procedure to most of the covered 457 star clusters except those with prominent RV peak and could be directly processed in next step. These special star clusters are marked using 'n' in the column 'CMD' in Table A.1

### 3.2 Further selection in RV distribution

In most cases, member stars of a star cluster belong to a simple stellar population<sup>1</sup>, i.e. they have same age, metallicity, and distance with very small dispersion. Moreover, the member stars show bulk motion with velocity dispersion of a few  $\text{km s}^{-1}$  and very concentrated proper motions. These characteristics allow us to identify the memberships by searching the clump of the stars in the space of the parameters. In general, we can map the candidate stars selected from the color-magnitude diagram to the multi-dimensional space of radial velocity–metallicity–proper motions and look for the clump. However, in

<sup>1</sup> Although recent studies find that some massive globular clusters contain multiple stellar populations (de Grijs 2010), it would not significantly affect our technique since the age and metallicity of the multiple populations are only slightly different.





**Fig. 2** The sample  $g-r$  vs.  $r$  diagram for NGC2632. The black dots in the left panel are the stars observed by LAMOST (same as black dots in the dashed blue circle in Fig 1) within  $2r_c$ , while the red dots in the panels are the stars within  $2r_0$ . The pink line indicates the PARSEC synthetic stellar track with the same metallicity, age, extinction, and distance of the cluster. The green dashed lines represent the boundaries used for candidate selection around the stellar track. They are manually set for each cluster and the typical width of the cut is  $\sim 0.5$  mag in  $g-r$ . The blue dots in the left panel are the LAMOST observed stars located in both the  $2r_c$  circle and the band around the stellar track defined by the green dashed lines.

practice, the measurement uncertainty of these observables are not equal. The radial velocity is usually measured in the highest accuracy in LAMOST data, and the error is about  $5 \text{ km s}^{-1}$ , which is slightly larger than the internal dispersions of the star clusters. The uncertainty of the metallicity measured from the LAMOST spectra is about 0.1-0.2 dex, but quite close to the dispersion of the field disk stars.

Despite the  $\sim 2 \text{ mas yr}^{-1}$  systematic error in PPMXL catalog, the  $4\sim 8 \text{ mas yr}^{-1}$  random errors of the proper motions (Z.-Y. Wu et al. 2011) may totally smear out the signature of the star cluster when the distance of the cluster is larger than a few hundreds parsecs. Therefore, for our available data, the RV distribution is the best discriminator of cluster membership due to its smallest relative measurement errors. We then use RV for the further candidate selection and use proper motions as the diagnostic to assess the performance of the selection in RV. Fig. 3 shows the sample distributions of RV and  $[\text{Fe}/\text{H}]$  again with the cluster NGC 2632. Since the LAMOST stellar parameter pipeline provides the accuracy of radial velocity estimates within  $5 \text{ km s}^{-1}$  (Gao et al. 2015), larger than the intrinsic velocity dispersion of a star cluster, thus the measured velocity dispersion of member candidates of a cluster is dominated by the measurement error.

It is noted that there are two radial velocities released in the LAMOST catalog. One is from ULySS, which simultaneously derive the radial velocity with other stellar astrophysical parameters (Y. Wu et al.

2011a,b, 2014). The other is measured from the cross-correlation with the ELODIE library (Luo et al in prep.). In general, the former one should be more accurate since the quality of the spectra involved in ULySS is higher, while spectra with any signal-to-noise ratio are handled in the ELODIE-based cross-correlation. Second, ULySS derives the radial velocity with relatively accurate stellar parameters, hence the template spectra used to find the radial velocity may well match the observed one, while the template spectra used in cross-correlation may not match the observed spectra due to the mis-classification. In this work, we intend to find as many as possible member candidates. Therefore, in order not to miss the spectra without stellar parameters, we adopt both radial velocities, the ULySS derived radial velocity, denoted as RV, which is more accurate but only half of the spectra in the DR2 catalog have this value estimated; and the cross-correlation derived radial velocities, denoted as  $RV_z$ , which are less accurate but estimated for each spectrum. Thus, we divide the selected results into two versions, one includes stars with stellar parameters RV, and the other includes all stars with  $RV_z$ .

In order to assign a membership probability to each star, we adopt the method proposed by (Frinchaboy & Majewski 2008) but modified some details. Again, we use NGC 2632 as the sample to show how to purify the member candidates with the peak in RV (or  $RV_z$ ) distribution. The lines in top panel of Fig 3 is the normalized Kernel-Smoothed RV distribution (red for RV, blue for  $RV_z$ ) smoothed by a Gaussian Kernel with  $5 \text{ km s}^{-1}$  bandwidth, which is the typical error of RV. Furthermore, we assume that stars outside  $2r_c$  are 'non-members' (Frinchaboy & Majewski 2008). Thus we adopt the normalized Kernel-Smoothed RV distribution of the stars located between  $2r_c$  and  $3r_c$  to represent the distribution of field stars ( $\psi_f$ ). The gray area for Kernel-Smoothed RV distribution of stars located between 2 and  $3r_c$  scaled by a factor in order to fit the wings of the peak stacked by member stars. To calculate the membership probability alongside the RV tick, Frinchaboy & Majewski (2008) uses:

$$P_c^{RV} = \frac{\psi_{c+f} - \psi_f}{\psi_{c+f}}, \quad (1)$$

which will lead to significant negative value of the derived membership probability around the peak contributed by member stars and the wings of the peak of membership probability extends to negative when both  $\psi_{c+f}$  and  $\psi_f$  are normalized. Moreover, this leads to underestimation of the membership probability of stars. Thus we modified this equation by multiply the  $\psi_f$  by a scale factor to solve this problem, and the new equation we adopt is

$$P_c^{RV} = \frac{\psi_{c+f} - \psi_f * \text{scale}}{\psi_{c+f}}. \quad (2)$$

To calculate the scale factor for given  $\psi_{c+f}$  and  $\psi_f$  (this can not be done automatically since the scale factor is largely affected by the RV position of the star cluster), we specify an interval, e.g.,  $[15.0 \text{ } 50.0] \text{ km s}^{-1}$  for NGC 2632 (since there is a prominent peak around  $35 \text{ km s}^{-1}$ ), then we scale the  $\psi_f$  to fit  $\psi_{c+f}$  in  $[5.0 \text{ } 10.0] \text{ km s}^{-1}$  and  $[50.0 \text{ } 55.0] \text{ km s}^{-1}$  range ( $5 \text{ km s}^{-1}$  around both sides of the specified interval), and use least square to obtain the scale factor of the best fit. The fit range we specify for each star cluster and the scale factor obtained ( $\text{Scale}_{RV}$  and  $\text{Scale}_{RV_z}$ ) can be found in Table A.1. The scale factor helps us to subtract the field star component more accurately.

The next step is to fit the derived membership probability curve and extract the membership probability profile. We apply a local Gaussian Fit to the curve in our specified interval (e.g.,  $[15.0 \text{ } 50.0] \text{ km s}^{-1}$  for NGC 2632). The fit results are shown in the third panel of Fig 3, with which we are able to assign a membership probability for each star given RV. In order to estimate the bulk probability, in our catalog of member stars we only maintain the stars with relatively high membership probability (located within the interval  $[center - \sigma, center + \sigma]$ , where  $center$  and  $\sigma$  are the of center position and dispersion of the fitted Gaussian Function, which is shown in the third and bottom panel of Fig 3 using black dashed lines). In the bottom panel of Fig 3, the black (gray) dots are the RV and  $[\text{Fe}/\text{H}]$  of all the stars located within  $2r_c$  with (without) a CMD selection. The stars selected using RV method above and included in our member star candidate catalog are turned into red.

The right panel of Fig 3 is the Kernel-Smoothed (by a Gaussian Kernel with bandwidth of 0.12 dex) distribution of the  $[\text{Fe}/\text{H}]$  of our selected member star candidates. Although,  $[\text{Fe}/\text{H}]$  can be used in the

member identification, it may not significantly improve the performance since the most of the open clusters have very similar metallicity as the field stars and the measurement error of 0.1-0.2 dex is much larger than the intrinsic dispersion. However, it is still very helpful to double-check the performance of the photometric-kinematic member identification. In the right panel, the distribution of  $[\text{Fe}/\text{H}]$  for all stars is shown in gray and the distribution for kinematic member candidates in red. It is seen that, although it is hard to identify the member stars from the distribution of all stars, the kinematic member candidates do show a significant peak at around the green horizontal line, which is the metallicity of the cluster from the MWSC catalog.

## 4 RESULTS

For each cluster, we identify the kinematic member candidates according to the technique mentioned in Sect 3. We leave the clusters with at least 3 kinematic member candidates based on  $\text{RV}_z$  in Table A.1, which includes 21 open cluster, 2 globular cluster, and 1 open cluster with nebulosity. In total, we identify 2189 member candidates from the Kernel-Smoothed distribution of  $\text{RV}$  and 3559 from  $\text{RV}_z$  belonging to the star clusters and list them in Table A.2. The probability of the members in the candidate samples vary from 9 % to 100 % and from 7 % to 95 % for candidates selected based on  $\text{RV}$  and  $\text{RV}_z$ . The overall probability is 40 % for both candidates selected based on  $\text{RV}$  and  $\text{RV}_z$ . The catalog of the candidates selected based on  $\text{RV}$  can be found in the appendix and those selected based on  $\text{RV}_z$  will be available as online material.

We take the median of the  $\text{RV}$  and  $[\text{Fe}/\text{H}]$  of member star candidates for each star cluster as the estimated value of the bulk properties of the star clusters, and its distance to 85 and 15 percentiles (for normal distribution, the 15 and 85 percentiles are roughly  $center - \sigma$  and  $center + \sigma$ ) as the upper and lower error of the estimated value. Table A.1 lists all these LAMOST derived bulk parameters with a \* marked on the column names. Table A.2 lists all the obtained member star candidates and Fig 2~4 for each clusters can be found in the appendix as well.

For the first time, we determine  $\text{RV}$  for 4 of the 24 clusters and the  $[\text{Fe}/\text{H}]$  for 11 of them. Their parameters are marked with † in Table A.1. Compared with the large area coverage of the LAMOST survey, the number of the star clusters that have the identified member candidates in the LAMOST catalog is still very small. Therefore, we propose to mark higher priority to the photometric member candidates of the all 457 star clusters covered by LAMOST footprints in the input catalog, such that they can have higher opportunities to be observed in the rest years of the survey.

## 5 DISCUSSIONS

### 5.1 Other parameters

For each star observed with LAMOST, we find its best counterpart in the PPMXL catalog (Roeser et al. 2010) within 3 arcsecs. If there are multiple objects from PPMXL within 3 arcsecs, we choose the nearest one as the counterpart. For some clusters, e.g. NGC 2632 (see Fig. 4), the proper motions are significantly different from that of the field stars, thus the proper motions can be very helpful in purifying the member candidates. However, for most clusters, the proper motions are too blur and flooded in the field stars and the large measurement errors as inferred in Z.-Y. Wu et al. (2011). Consequently, they may not significantly improve the membership identification for most of our 24 star clusters. We leave the further identification of the members with proper motions to the future users based on their specific requirements. Moreover, not all LAMOST spectra have reliable proper motion measurements and the cross-identification may lead to significant decreasing of the number of the member candidates if we apply proper motions to the membership identification.

### 5.2 Caveat

The membership probability is determined by the ratio of the number of members and field stars. This value is not comparable with those in MWSC because the different definitions of the membership prob-

ability and the different types of data used for identifications. The membership probability in MWSC catalog derived from Flux-Limited photometry surveys has a very simple selection effect while the membership probability derived from LAMOST RV data has a very different and more complicated selection effect, which is determined by the LAMOST targeting plan. The value of our membership probability is defined by the fraction of the fibers pointing to the real members. Consequently this probability is dominated by the efficiency of the LAMOST targeting on star cluster members.

### 5.3 Comparison of the LAMOST derived RV and [Fe/H] with MWSC catalog

With the member candidates and their parameters obtained, we are able to compare the RV and [Fe/H] values of the cluster with those in the literature. Adopting the MWSC parameters as their true values, we clearly see an overall consistency from Fig. 5. Using normal distribution statistics, the systematic offset of RV is  $0.85 \pm 1.26 \text{ km s}^{-1}$ , with a dispersion of  $5.47^{+1.16}_{-0.71} \text{ km s}^{-1}$ , while for metallicity, the systematic offset and dispersion are  $-0.08 \pm 0.04 \text{ dex}$  and  $0.13^{+0.04}_{-0.02} \text{ dex}$ , respectively. Note that neither RV nor [Fe/H] from MWSC catalog are used for membership identification. We do not find the systematic offset in RV as mentioned in (Luo et al. 2015; Gao et al. 2015; Xiang et al. 2015), although a similar systematic offset is found in [Fe/H]. Moreover, the dispersion in RV is well consistent with Gao et al. (2014). And the dispersion in [Fe/H] is consistent with Gao et al. (2015), which is 0.11 dex, as well.

For most star clusters, RV is very near the MWSC value except a few biased by  $\sim 1\sigma$ , which is still within the tolerance. However, [Fe/H] measurement is a bit worse than RV. For 2 metal-poor Globular Clusters, [Fe/H] estimated by LAMP are significantly lower, and also the same case in the metal-rich end. This could be due to the template incompleteness or some bias in the pipeline. The parameters for these star clusters enable us to better calibrate the LAMP stellar parameters in future works. Similar calibration has already done for LSP3 (LAMOST Stellar Parameter Pipeline at Peking University, Xiang et al. 2015). Compared to their work, we have a larger sample of star clusters except M67 which is in test plates and not included in the public LAMOST DR2 catalog.

For open clusters (whose metallicity is solar-like), there is a trend of decreasing estimated value with the increasing metallicity, namely, our estimated value are lower for metal-rich clusters and higher for metal-poor clusters than true value (from MWSC). A linear fit is applied on these 11 open clusters, the slope of  $-0.57 \pm 0.13$  is found. This nonnegligible trend may be due to 1) our member star candidates are contaminated by a fraction of field star whose metallicity are solar-like or 2) the LAMP pipeline underestimates metallicity for metal-rich stars and overestimates metallicity for metal-poor stars, i.e., the LAMP tends to give a solar-like metallicity value for stars. However, at the extremely metal-poor end, the estimated metallicity is lower by  $1\sim 2\sigma$ . With the limited star candidates it is difficult to give a definitive inference. But according to the large deviation of the slope from its error, it is likely that both of these two reasons contributes. To know exactly which is the main reason, more reliable member candidates and more star clusters are needed.

## 6 CONCLUSIONS

In this work, we employ the method, combining the photometric with the kinematic information, to identify the member candidates of about 457 star clusters covered by LAMOST footprints. Although the LAMOST DR2 catalog contains about 3.8 million stellar spectra, only 24 star cluster are found member candidates more than 3 for each in the catalog. With these member candidates, for the first time, we are able to determine the median RV and [Fe/H] for 4 and 11 clusters respectively. These member clusters are also very helpful in the assessment of the performance of the stellar parameters estimated from the LAMOST pipeline. Comparing the RV with the MWSC catalog for the 24 clusters, we find the uncertainty of the velocity estimation in the LAMOST catalog is about  $5.47^{+1.16}_{-0.71} \text{ km s}^{-1}$ , with about  $0.85 \pm 1.26 \text{ km s}^{-1}$  offset from zero point. The uncertainty of [Fe/H] is also determined as  $0.13^{+0.04}_{-0.02} \text{ dex}$  from the comparison with the MWSC catalog and we find the offset of [Fe/H] is  $-0.08 \pm 0.04 \text{ dex}$ . We notice that the LAMOST [Fe/H] is not consistent with values from the MWSC, implying some bias as a

function of the true  $[\text{Fe}/\text{H}]$ . This is possibly due to both of the contributions from contamination of field stars in our member star candidates and the biased metallicity estimated by the LASP.

We propose to assign higher priority in the photometric member candidates for the clusters covered by the LAMOST footprints, so that they can be more possibly observed in the rest of the survey. In this way, the member candidates of the star clusters can be significantly increased. This will be very helpful in the study of the overall structure of the Milky Way as tracers as well as to better calibrate the stellar parameters, especially the RV and  $[\text{Fe}/\text{H}]$ , in the LAMOST pipeline.

**Acknowledgements** This work is supported by the Strategic Priority Research Program "The Emergence of Cosmological Structures" of the Chinese Academy of Sciences, Grant No. XDB09000000 and the National Key Basic Research Program of China 2014CB845700. CL acknowledges the National Science Foundation of China (NSFC) under grants 11373032, 11333003, and U1231119. XYZ acknowledges the NSFC under grant 11403036. The authors are grateful for constructive comments given by the referee. Guoshoujing Telescope (the Large Sky Area Multi-Object Fiber Spectroscopic Telescope LAMOST) is a National Major Scientific Project built by the Chinese Academy of Sciences. Funding for the project has been provided by the National Development and Reform Commission. LAMOST is operated and managed by the National Astronomical Observatories, Chinese Academy of Sciences. Facilities: LAMOST.

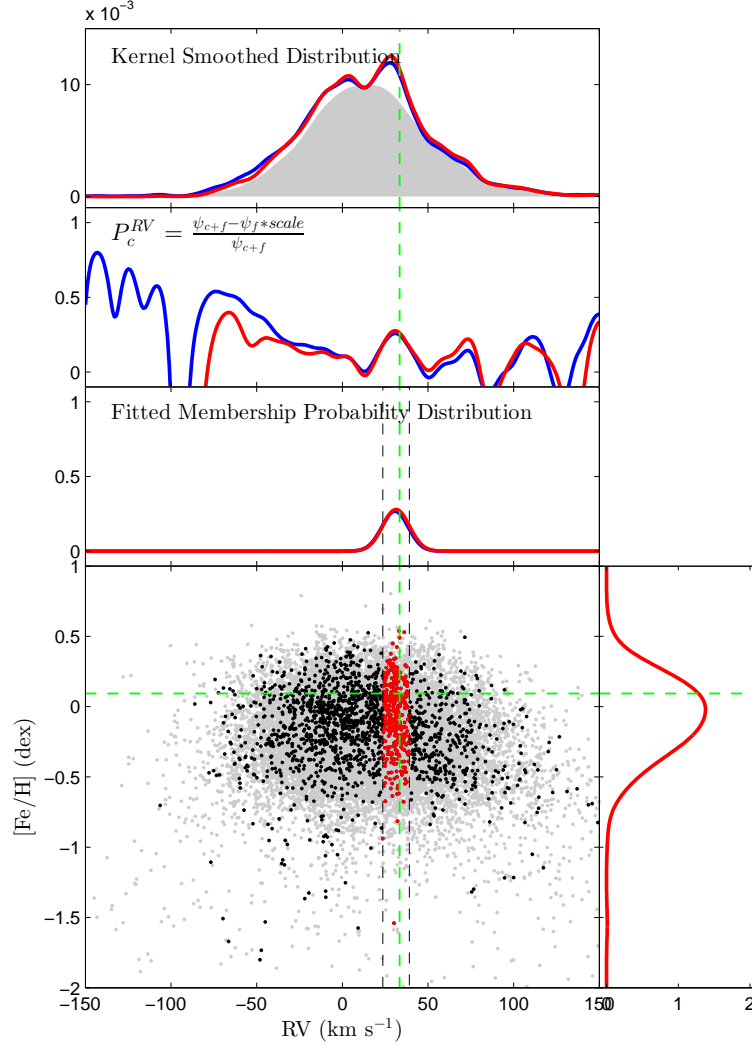
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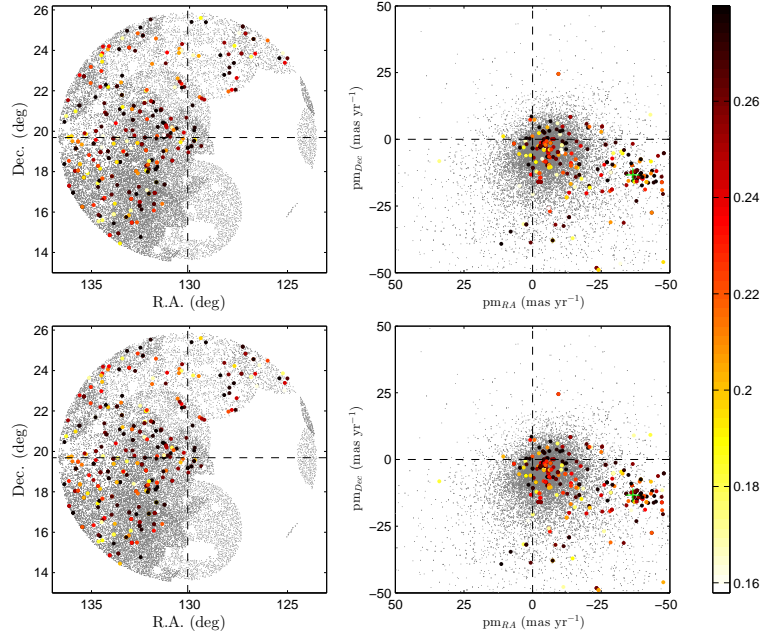


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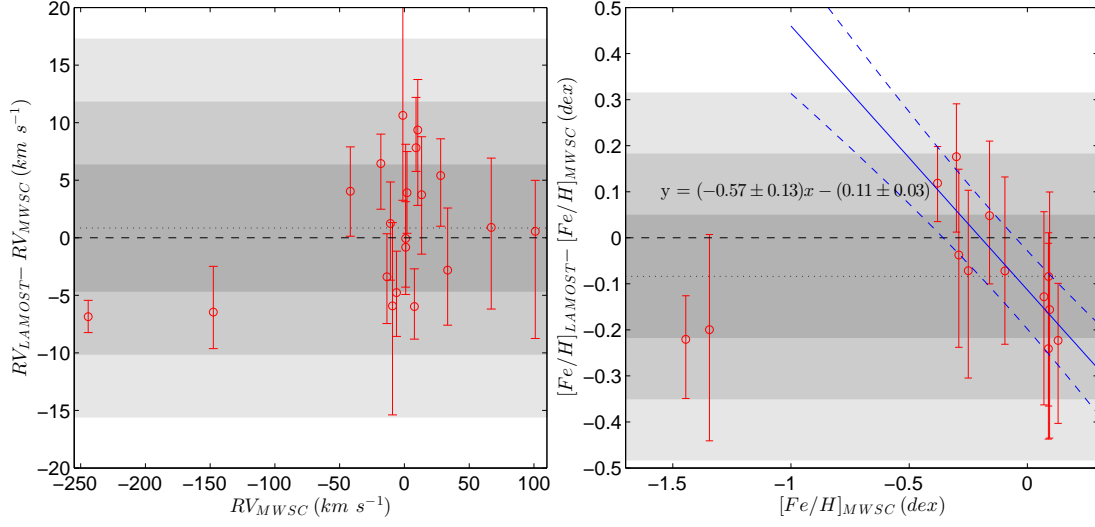
## **Appendix A:**



**Fig. 3** The demonstration of the kinematic member identification for NGC 2632. In the top panel, the red (blue) line denotes the Kernel-Smoothed distribution of the RV ( $RV_z$ ) of the CMD-selected stars, while the gray area denotes the scaled Kernel-Smoothed distribution of the RV of stars located between  $2$  and  $3r_c$ . The second panel shows the derived membership probability and the Gaussian-Fitted membership probability distribution. In the bottom panel, the gray and black dots are stars located within  $2r_c$  within center of the cluster with and without CMD selection. The member star candidates selected using the distribution of RV are turned into red. And the right panel shows the Kernel-Smoothed distribution of  $[\text{Fe}/\text{H}]$  of the candidates (red dots in bottom panel), the Gaussian Kernel bandwidth is 0.12 dex (typical error)



**Fig. 4** The spatial distributions (left panels) and proper motion distributions (right panels) for all stars inside  $2r_c$  (gray dots) and the kinematic member candidates (colored dots in the top panels are member candidates based on  $RV$  and those in the bottom panels are based on  $RV_z$ , for NGC 2632). The color of dots denotes the membership probability assigned to stars using our method. The black dashed lines indicate the central position of the cluster in left panels and the zero points of proper motions in the right panels. The green crosses in right panels denote the MWSC value of the bulk proper motion.



**Fig. 5** The residuals of RV (left panel) and  $[Fe/H]$  (right panel) to the MWSC catalog. The red circles stand for the median values of the kinematic member candidates derived from the LAMOST for 24 clusters. The standard deviations of the members for each cluster are shown as the error bars. The black dashed line denotes the zero point and black dashed dot line indicates the systematic offset of RV and  $[Fe/H]$  in the left and right panel, respectively. The area filled with gray color with different levels indicate 1, 2 and 3  $\sigma$  confidence interval from inside to outside.

**Table A.1** Parameters of 24 star clusters.

Name	RAJ2000 (deg)	DEJ2000 (deg)	Type	r0 (deg)	r2 (deg)	d (pc)	log t	CMD Fit Range(RV, RV <sub>z</sub> ) (kms <sup>-1</sup> )	RV (kms <sup>-1</sup> )	RV* (kms <sup>-1</sup> )	RV <sub>z</sub> * (kms <sup>-1</sup> )	oRV* Eff. oRV $\bar{P}_c^{RV}$ Scale <sub>RV</sub>	oRV <sub>z</sub> * Eff. oRV <sub>z</sub> $\bar{P}_c^{RV_z}$ Scale <sub>RV<sub>z</sub></sub>	[Fe/H] (dex)	[Fe/H]* (dex)
NGC2632	130.09	19.69		0.20	3.10	187	8.92	y [15.0, 50.0][15.0, 50.0]	33.40 ± 0.52	30.59 <sup>+5.39</sup> <sub>-4.78</sub>	30.58 <sup>+5.40</sup> <sub>-4.80</sub>	341 83 0.24 0.88	408 95 0.23 0.88	0.09 ± 0.11	-0.06 <sup>+0.11</sup> <sub>-0.11</sub>
NGC2168	92.30	24.36		0.04	0.98	830	8.26	y [-20.0, 6.0][-20.0, 6.0]	-10.80 ± 1.73	-9.56 <sup>+3.61</sup> <sub>-4.92</sub>	-9.59 <sup>+3.60</sup> <sub>-4.80</sub>	390 82 0.21 0.98	649 56 0.09 0.98	-0.16 ± 0.09	-0.11 <sup>+0.11</sup> <sub>-0.11</sub>
NGC2099	88.09	32.57		0.06	0.48	1400	8.55	y [-7.0, 17.0][-7.0, 17.0]	7.70 ± 0.02	1.73 <sup>+3.27</sup> <sub>-2.83</sub>	1.80 <sup>+3.16</sup> <sub>-3.00</sub>	113 16 0.14 0.96	193 27 0.14 0.96	0.09 ± 0.14	-0.15 <sup>+0.15</sup> <sub>-0.15</sub>
NGC1746	76.14	23.83		0.05	0.60	800	8.64	y [-7.0, 16.0][-7.0, 16.0]	2.00 ± 3.70	5.91 <sup>+3.58</sup> <sub>-3.52</sub>	6.00 <sup>+3.52</sup> <sub>-3.60</sub>	85 6 0.07 1.05	187 10 0.05 1.05	NaN ± NaN	-0.17 <sup>+0.17</sup> <sub>-0.17</sub>
NGC1039	40.55	42.79		0.16	0.73	510	8.38	y [-25.0, 6.0][-25.0, 6.0]	-18.20 ± 1.40	-11.75 <sup>+2.56</sup> <sub>-3.97</sub>	-11.69 <sup>+2.40</sup> <sub>-4.06</sub>	113 22 0.20 1.02	161 21 0.13 1.02	0.07 ± 0.03	-0.06 <sup>+0.06</sup> <sub>-0.06</sub>
NGC1647	71.50	19.17		0.04	0.75	572	8.30	y [-23.0, 0.0][-23.0, 0.0]	-6.10 ± 0.39	-10.86 <sup>+3.59</sup> <sub>-3.81</sub>	-10.79 <sup>+3.60</sup> <sub>-3.90</sub>	81 19 0.24 1.03	141 33 0.23 1.03	NaN ± NaN	-0.06 <sup>+0.06</sup> <sub>-0.06</sub>
NGC2183	92.70	-6.20	n	0.03	0.39	1047	7.15	y [3.0, 34.0][3.0, 34.0]	10.30 ± NaN	19.66 <sup>+4.38</sup> <sub>-6.56</sub>	19.79 <sup>+4.29</sup> <sub>-6.60</sub>	108 24 0.23 0.89	123 21 0.17 0.89	NaN ± NaN	-0.09 <sup>+0.09</sup> <sub>-0.09</sub>
NGC1912	82.22	35.80		0.03	0.39	1144	8.35	y [-20.0, 24.0][-20.0, 24.0]	1.00 ± 0.58	0.18 <sup>+3.95</sup> <sub>-4.11</sub>	0.30 <sup>+3.90</sup> <sub>-4.12</sub>	85 30 0.36 0.92	178 49 0.28 0.92	NaN ± NaN	-0.12 <sup>+0.12</sup> <sub>-0.12</sub>
NGC2281	102.08	41.08		0.04	0.41	500	8.79	y [0.0, 39.0][0.0, 39.0]	13.30 ± 4.11	17.04 <sup>+5.04</sup> <sub>-5.16</sub>	17.09 <sup>+5.10</sup> <sub>-5.10</sub>	233 139 0.60 0.79	289 150 0.52 0.79	0.13 ± 0.11	-0.09 <sup>+0.09</sup> <sub>-0.09</sub>
NGC2420	114.60	21.57		0.02	0.30	2880	9.37	y [47.0, 87.0][47.0, 87.0]	67.00 ± 1.83	67.90 <sup>+6.02</sup> <sub>-7.10</sub>	67.90 <sup>+5.97</sup> <sub>-7.05</sub>	74 41 0.55 1.05	87 50 0.58 1.05	-0.38 ± 0.07	-0.26 <sup>+0.26</sup> <sub>-0.26</sub>
NGC2158	91.86	24.09		0.04	0.25	4770	9.33	y [9.0, 45.0][9.0, 35.0]	28.00 ± 4.08	33.41 <sup>+3.19</sup> <sub>-4.41</sub>	33.43 <sup>+3.18</sup> <sub>-4.53</sub>	16 3 0.18 0.85	45 5 0.12 0.85	-0.25 ± 0.09	-0.32 <sup>+0.32</sup> <sub>-0.32</sub>
NGC869	34.74	57.15		0.06	0.54	2300	7.28	n [-46.0, -19.0][-46.0, -19.0]	-41.80 ± 1.57	-37.76 <sup>+3.85</sup> <sub>-3.91</sub>	-37.77 <sup>+3.90</sup> <sub>-3.90</sub>	57 15 0.26 0.95	254 82 0.32 0.95	-0.30 ± NaN	-0.12 <sup>+0.12</sup> <sub>-0.12</sub>
NGC1662	72.11	10.93		0.02	0.48	437	8.70	n [-35.0, 5.0][-35.0, 5.0]	-13.50 ± 0.40	-16.89 <sup>+3.74</sup> <sub>-4.06</sub>	-16.94 <sup>+3.75</sup> <sub>-4.05</sub>	94 30 0.32 1.00	122 37 0.31 1.00	-0.10 ± 0.01	-0.17 <sup>+0.17</sup> <sub>-0.17</sub>
Basel11B	89.56	21.99		0.01	0.18	1318	8.98	y [-2.0, 26.0][-4.0, 25.0]	NaN ± NaN	15.28 <sup>+2.06</sup> <sub>-5.14</sub>	15.29 <sup>+2.10</sup> <sub>-5.28</sub>	24 5 0.22 0.88	53 13 0.24 0.88	NaN ± NaN	-0.14 <sup>+0.14</sup> <sub>-0.14</sub>
NGC1528	63.85	51.19		0.05	0.45	950	8.55	y [-44.0, 6.0][-44.0, 6.0]	-9.20 ± 0.40	-15.12 <sup>+7.23</sup> <sub>-9.46</sub>	-15.14 <sup>+7.22</sup> <sub>-9.44</sub>	106 51 0.48 0.72	230 73 0.32 0.72	NaN ± NaN	-0.08 <sup>+0.08</sup> <sub>-0.08</sub>
NGC2252	98.62	5.37		0.02	0.22	900	8.86	y [6.0, 32.0][6.0, 32.0]	9.00 ± 7.40	16.82 <sup>+4.37</sup> <sub>-2.06</sub>	16.79 <sup>+4.53</sup> <sub>-2.13</sub>	23 8 0.34 0.90	22 3 0.14 0.90	NaN ± NaN	-0.07 <sup>+0.07</sup> <sub>-0.07</sub>
Basel4	87.25	30.20		0.02	0.12	2801	8.66	y [-30.0, 8.0][-33.0, 10.0]	NaN ± NaN	-9.63 <sup>+7.79</sup> <sub>-6.16</sub>	-9.59 <sup>+7.88</sup> <sub>-6.10</sub>	29 13 0.46 0.82	63 12 0.19 0.82	NaN ± NaN	-0.23 <sup>+0.23</sup> <sub>-0.23</sub>
NGC1960	84.08	34.16		0.03	0.26	1200	7.57	y [-11.0, 37.0][-11.0, 37.0]	-1.20 ± 4.60	9.43 <sup>+10.59</sup> <sub>-7.38</sub>	9.44 <sup>+10.49</sup> <sub>-7.37</sub>	36 11 0.30 0.87	90 32 0.35 0.87	NaN ± NaN	-0.20 <sup>+0.20</sup> <sub>-0.20</sub>
NGC6205	250.42	36.46	g	0.07	0.47	7107	10.10	y [-270.0, -230.0][-270.0, -230.0]	-244.20 ± 0.20	-251.05 <sup>+1.42</sup> <sub>-1.38</sub>	-251.08 <sup>+1.56</sup> <sub>-1.29</sub>	4 4 1.00 0.80	8 8 0.95 0.80	-1.45 ± NaN	-1.67 <sup>+1.67</sup> <sub>-1.67</sub>
Waterloo2	82.01	40.35		0.01	0.19	550	8.33	y [-39.0, 15.0][-39.0, 15.0]	NaN ± NaN	-7.92 <sup>+11.62</sup> <sub>-9.25</sub>	-7.79 <sup>+11.39</sup> <sub>-9.26</sub>	47 17 0.37 0.71	71 17 0.24 0.71	NaN ± NaN	-0.10 <sup>+0.10</sup> <sub>-0.10</sub>
NGC6819	295.32	40.20		0.02	0.20	2360	9.21	n [-18.0, 30.0][-18.0, 30.0]	1.00 ± 2.00	0.95 <sup>+8.18</sup> <sub>-4.24</sub>	0.90 <sup>+8.24</sup> <sub>-4.20</sub>	80 41 0.51 0.83	109 52 0.48 0.83	0.09 ± 0.03	0.01 <sup>+0.01</sup> <sub>-0.01</sub>
NGC5272	205.55	28.38	g	0.07	0.44	10194	10.10	n [-171.0, -138.0][-200.0, -116.0]	-147.60 ± 0.20	-154.06 <sup>+3.97</sup> <sub>-3.17</sub>	-153.94 <sup>+3.75</sup> <sub>-3.15</sub>	10 8 0.82 0.80	12 10 0.83 0.80	-1.34 ± NaN	-1.54 <sup>+1.54</sup> <sub>-1.54</sub>
Berkeley71	85.24	32.27		0.02	0.14	3260	9.02	n [-48.0, -6.0][-50.0, -8.0]	NaN ± NaN	-25.50 <sup>+5.30</sup> <sub>-6.70</sub>	-25.48 <sup>+5.28</sup> <sub>-6.66</sub>	26 16 0.60 0.67	45 25 0.55 0.67	NaN ± NaN	-0.26 <sup>+0.26</sup> <sub>-0.26</sub>
Berkeley32	104.53	6.43		0.02	0.12	4996	9.45	y [81.0, 119.0][81.0, 119.0]	101.00 ± 3.30	101.56 <sup>+4.43</sup> <sub>-9.31</sub>	101.48 <sup>+4.59</sup> <sub>-9.26</sub>	14 12 0.85 2.00	19 16 0.83 2.00	-0.29 ± 0.04	-0.33 <sup>+0.33</sup> <sub>-0.33</sub>

Notes:

*Name* is the name of the cluster.

*RAJ2000* and *emphDEJ2000* are the RA and Dec of the center of the cluster in degrees.

*Type* is the type of the cluster whose value is null when it is an open cluster. And g denotes a globular cluster while n denotes open clusters with nebulosity.

*r0* and *r2* are the angular radius of the core and cluster respectively.

*CMD* is set to be 'y' if CMD cut is applied and 'n' if not.

*Fit Range* are parameters set during the selection of member star candidates using RV.

*RV*, *RV<sub>z</sub>* and *RV<sub>z</sub>*\* are the RV of the each star cluster estimated by MWSC, LAMOST RV and *RV<sub>z</sub>*.

*oRV* is the number of member star candidates, and *Eff. oRV* are the sum of the membership probability.  $\bar{P}_c^{RV}$  are the mean membership probability, namely the

*Eff. oRV* / *oRV*. *Scales<sub>RV</sub>* is the scale factor described in Sect 3.2. The corresponding quantities for member candidates of *RV<sub>z</sub>* version are also presented.



Table A.2: Member stars of 24 clusters and their parameters.

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2632	134.269520	22.300831	5301.91	276.58	3.77	0.57	-0.12	0.36	30.95	27.94
NGC 2632	134.496130	22.978804	6149.40	225.52	4.29	0.50	-0.17	0.23	26.75	23.43
NGC 2632	133.440730	22.749496	5980.00	200.68	4.56	0.48	0.10	0.20	31.02	27.95
NGC 2632	132.641230	24.844702	5744.92	111.08	4.09	0.50	0.32	0.11	26.24	22.48
NGC 2632	133.188990	24.971348	5525.08	144.23	4.63	0.45	-0.24	0.18	32.36	27.76
NGC 2632	133.079140	24.141962	5633.89	213.81	4.06	0.51	0.53	0.19	36.20	23.08
NGC 2632	132.775320	23.980831	4835.26	100.66	3.62	0.29	0.45	0.13	29.39	27.08
NGC 2632	133.595490	24.065157	6251.66	143.33	4.19	0.47	0.06	0.13	30.22	27.67
NGC 2632	134.460290	23.439175	6834.83	152.33	4.05	0.35	-0.11	0.16	25.08	20.14
NGC 2632	135.382760	22.716627	4729.22	240.90	2.19	0.64	-0.14	0.33	34.26	26.12
NGC 2632	134.505900	23.758030	5031.60	100.71	4.56	0.27	0.19	0.14	25.02	20.01
NGC 2632	135.034840	23.184902	4686.02	149.56	2.76	0.46	-0.11	0.20	26.51	22.99
NGC 2632	131.911740	23.332890	6316.20	201.69	4.22	0.47	0.12	0.17	25.82	21.66
NGC 2632	132.379120	24.734097	5655.22	151.89	4.53	0.46	0.23	0.15	31.54	27.97
NGC 2632	132.503080	25.131594	4923.98	138.18	2.29	0.72	-0.62	0.23	31.96	27.90
NGC 2632	131.712830	24.586255	5185.82	103.56	4.80	0.35	0.07	0.14	36.64	22.25
NGC 2632	131.984990	25.530976	6725.24	134.79	4.14	0.36	-0.07	0.14	32.92	27.44
NGC 2632	133.634950	14.943502	4871.27	92.44	2.57	0.55	-0.21	0.14	33.95	26.49
NGC 2632	132.945730	15.478458	4689.28	102.12	2.66	0.53	-0.31	0.15	26.72	23.37
NGC 2632	132.679360	15.491649	5670.33	110.00	4.38	0.48	0.16	0.12	36.44	22.63
NGC 2632	132.975310	16.655691	4879.78	104.73	2.43	0.64	-0.34	0.17	26.59	23.14
NGC 2632	132.588100	17.251282	6326.80	97.00	4.14	0.45	-0.15	0.11	33.97	26.47
NGC 2632	133.072710	16.982933	4626.01	113.16	2.81	0.47	0.08	0.15	33.35	27.09
NGC 2632	133.958410	17.770565	4838.77	81.74	4.70	0.28	0.20	0.11	28.83	26.51
NGC 2632	133.860780	15.888425	4825.88	92.02	2.25	0.67	-0.57	0.16	24.17	18.19
NGC 2632	133.234660	15.751513	5028.81	101.03	4.62	0.34	0.18	0.13	30.08	27.59
NGC 2632	132.996710	16.080107	4773.79	93.60	4.70	0.29	-0.07	0.13	24.18	18.21
NGC 2632	135.473400	16.260405	4774.34	96.07	3.43	0.38	0.29	0.12	36.78	21.98
NGC 2632	135.940200	16.959053	4755.92	91.87	2.73	0.53	-0.26	0.14	30.85	27.91
NGC 2632	134.637350	15.537820	5993.43	117.75	4.10	0.54	-0.39	0.14	38.49	18.41
NGC 2632	134.485980	16.503700	5184.67	178.58	3.48	0.69	-0.34	0.23	23.68	17.12
NGC 2632	134.667320	17.241385	5135.06	175.19	3.37	0.66	-0.15	0.22	32.91	27.44
NGC 2632	134.891000	16.347998	6409.83	172.76	4.24	0.40	-0.39	0.21	36.07	23.32
NGC 2632	134.442360	16.602156	5702.62	153.75	3.91	0.60	0.14	0.15	28.38	25.97
NGC 2632	134.346470	16.695581	4733.88	107.14	2.96	0.51	-0.23	0.15	35.99	23.46
NGC 2632	134.663000	18.286491	5198.96	95.74	4.58	0.36	0.18	0.12	36.38	22.75
NGC 2632	134.445660	17.661064	6486.79	130.98	4.10	0.41	-0.10	0.13	26.40	22.78
NGC 2632	134.598940	17.553043	4767.87	74.74	4.76	0.27	-0.16	0.11	30.88	27.92
NGC 2632	131.774250	16.949488	4936.18	124.71	3.70	0.46	-0.06	0.16	28.29	25.85
NGC 2632	131.394950	16.405256	5874.71	119.48	3.99	0.58	0.09	0.12	36.74	22.06
NGC 2632	132.556750	16.320421	6102.04	104.35	4.35	0.49	-0.03	0.12	29.68	27.32
NGC 2632	131.808820	16.396496	6020.75	110.26	4.36	0.51	0.16	0.11	28.92	26.61
NGC 2632	132.543200	16.498825	5908.32	102.74	4.37	0.50	0.05	0.11	27.91	25.32
NGC 2632	132.071800	16.913162	4362.07	66.90	4.69	0.20	0.10	0.11	31.05	27.95
NGC 2632	135.122670	18.821621	4892.05	121.37	3.25	0.47	0.23	0.15	26.64	23.23
NGC 2632	134.899010	18.582453	5174.84	145.31	3.08	0.74	-0.39	0.20	34.87	25.30
NGC 2632	134.543380	18.964024	5134.61	137.88	3.50	0.62	-0.26	0.18	34.27	26.11
NGC 2632	135.593200	18.373280	4831.29	107.87	4.60	0.31	0.08	0.14	25.51	21.03
NGC 2632	134.894170	19.390499	5715.00	131.14	4.17	0.60	-0.41	0.17	30.12	27.61
NGC 2632	135.688646	18.053692	6306.34	139.38	4.17	0.43	-0.51	0.17	36.60	22.33
NGC 2632	135.843480	18.033945	4923.04	104.84	3.08	0.54	-0.18	0.15	27.94	25.37
NGC 2632	135.246400	18.026758	4828.19	105.38	2.97	0.54	-0.25	0.15	39.09	17.10
NGC 2632	135.391780	17.710364	4331.24	87.40	1.71	0.49	-0.54	0.17	37.58	20.35
NGC 2632	135.198530	17.925587	5141.06	113.70	4.58	0.37	0.17	0.14	38.10	19.25
NGC 2632	131.639700	18.235967	4538.20	70.36	4.65	0.23	0.11	0.10	30.82	27.91
NGC 2632	131.276280	17.365329	4777.43	92.28	2.66	0.50	-0.07	0.13	33.05	27.34
NGC 2632	131.688370	17.479609	4898.59	116.63	3.07	0.55	-0.15	0.16	32.23	27.81
NGC 2632	132.128860	17.997749	4728.92	65.46	4.70	0.26	0.10	0.09	32.15	27.84

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2632	133.710820	18.476883	4592.47	77.89	3.03	0.38	0.15	0.10	37.67	20.16
NGC 2632	134.124410	18.671792	4729.60	74.27	4.64	0.27	-0.01	0.10	32.30	27.78
NGC 2632	132.728810	18.025822	5972.81	135.91	4.25	0.53	0.00	0.14	36.79	21.96
NGC 2632	132.636520	17.916164	5561.66	121.74	4.09	0.58	-0.21	0.15	37.00	21.54
NGC 2632	132.852260	18.397673	5897.29	129.55	4.20	0.55	-0.25	0.15	23.65	17.05
NGC 2632	133.536050	18.477393	4066.91	45.63	4.76	0.20	-0.03	0.11	31.00	27.95
NGC 2632	131.665540	18.452287	4679.14	70.32	2.54	0.47	-0.11	0.11	36.37	22.77
NGC 2632	132.219090	19.061745	4883.03	81.38	2.52	0.58	-0.31	0.13	36.31	22.88
NGC 2632	132.115990	18.345543	5683.52	98.71	4.52	0.45	0.24	0.10	26.21	22.42
NGC 2632	132.070290	18.521807	5748.77	98.44	4.46	0.48	-0.00	0.12	38.26	18.91
NGC 2632	133.197330	18.836990	4968.38	98.56	4.48	0.36	-0.09	0.14	29.75	27.37
NGC 2632	129.901809	19.260508	3965.59	38.76	4.59	0.18	-0.12	0.11	31.17	27.97
NGC 2632	130.088905	19.181773	3918.73	27.39	4.65	0.17	-0.28	0.10	30.59	27.83
NGC 2632	130.583682	19.151555	4412.61	45.54	4.69	0.18	0.08	0.07	28.06	25.54
NGC 2632	130.450768	19.458670	4347.24	44.92	4.65	0.18	0.01	0.08	25.05	20.08
NGC 2632	130.879383	18.548525	4136.24	35.58	4.62	0.19	-0.06	0.08	34.99	25.12
NGC 2632	132.071931	16.913201	4362.32	45.21	4.62	0.19	0.01	0.08	24.46	18.82
NGC 2632	132.435018	19.352883	4070.38	32.07	4.71	0.19	-0.34	0.09	28.29	25.85
NGC 2632	129.767118	19.522684	4303.07	42.43	4.66	0.18	0.08	0.08	31.05	27.95
NGC 2632	131.303202	19.808547	4007.08	30.86	4.58	0.17	-0.36	0.09	23.62	16.99
NGC 2632	130.333014	19.634646	4402.77	42.83	4.66	0.19	0.06	0.07	25.84	21.70
NGC 2632	131.169811	20.193635	3972.48	34.98	4.54	0.19	-0.10	0.10	27.59	24.84
NGC 2632	129.738446	20.181546	4086.32	41.90	4.58	0.21	0.01	0.09	29.98	27.53
NGC 2632	130.879383	18.548525	4152.66	48.19	4.61	0.20	0.03	0.10	30.50	27.80
NGC 2632	130.088905	19.181773	3917.04	34.01	4.62	0.18	-0.26	0.12	30.26	27.69
NGC 2632	129.901809	19.260508	3975.36	48.82	4.56	0.20	-0.20	0.14	34.62	25.65
NGC 2632	130.059457	18.958731	4269.27	52.45	4.62	0.19	0.06	0.09	34.60	25.68
NGC 2632	129.401006	19.265077	4436.58	62.43	4.55	0.20	0.02	0.10	33.84	26.61
NGC 2632	129.767118	19.522684	4310.10	52.15	4.67	0.18	0.04	0.09	35.98	23.48
NGC 2632	130.813449	20.065574	4390.19	51.56	4.60	0.19	0.04	0.08	25.96	21.93
NGC 2632	130.654156	20.142162	4152.53	62.41	4.59	0.20	0.07	0.12	30.20	27.66
NGC 2632	130.162652	20.671518	4675.92	109.05	4.55	0.27	0.03	0.14	33.94	26.50
NGC 2632	130.290801	19.935344	4346.04	53.33	4.60	0.20	0.01	0.09	27.48	24.67
NGC 2632	132.435018	19.352883	4036.60	37.11	4.67	0.20	-0.31	0.10	31.02	27.95
NGC 2632	132.804241	19.790340	4462.49	81.01	2.93	0.37	0.20	0.11	34.73	25.50
NGC 2632	129.723060	19.571368	4100.86	48.92	4.62	0.20	0.00	0.11	37.78	19.93
NGC 2632	129.763401	20.043783	3979.37	51.21	4.55	0.20	-0.17	0.15	31.56	27.97
NGC 2632	129.240956	21.565496	3988.53	43.33	4.56	0.20	-0.15	0.12	27.92	25.34
NGC 2632	129.844220	21.282395	4586.85	83.59	3.07	0.39	0.11	0.11	30.30	27.71
NGC 2632	132.945742	15.478448	4706.79	80.52	2.68	0.53	-0.28	0.12	29.73	27.35
NGC 2632	132.491451	14.768941	4792.43	102.83	2.52	0.55	-0.20	0.15	30.60	27.84
NGC 2632	133.094458	15.840859	5014.06	100.66	3.25	0.57	-0.27	0.14	37.25	21.03
NGC 2632	133.234623	15.751486	5028.70	75.23	4.67	0.32	0.22	0.10	24.81	19.57
NGC 2632	133.546721	14.447146	4130.81	41.73	4.62	0.20	-0.08	0.09	25.04	20.05
NGC 2632	134.070051	14.859148	4732.50	64.92	2.54	0.47	-0.10	0.10	26.97	23.82
NGC 2632	133.634952	14.943523	4825.42	105.00	2.50	0.58	-0.19	0.16	31.21	27.97
NGC 2632	132.173344	17.088021	4690.21	79.99	4.62	0.28	-0.34	0.13	38.75	17.84
NGC 2632	133.973969	16.865093	5355.31	118.72	4.58	0.44	-0.12	0.15	28.79	26.47
NGC 2632	132.975278	16.655674	4861.70	84.16	2.38	0.60	-0.34	0.14	29.08	26.78
NGC 2632	132.542500	16.303496	4954.41	73.93	4.73	0.30	-0.00	0.10	29.57	27.23
NGC 2632	132.451496	16.130975	5113.06	82.97	4.76	0.32	0.28	0.10	29.97	27.52
NGC 2632	131.774257	16.949474	4932.35	98.77	3.70	0.43	-0.08	0.13	27.80	25.16
NGC 2632	131.688366	17.479594	4940.09	108.17	3.13	0.54	-0.09	0.15	38.26	18.91
NGC 2632	131.774257	16.949474	4913.64	113.61	3.69	0.44	-0.09	0.15	28.57	26.21
NGC 2632	132.071931	16.913201	4333.98	51.65	4.66	0.19	0.04	0.09	28.22	25.76
NGC 2632	135.473400	16.260406	4743.71	95.48	3.32	0.40	0.24	0.12	30.36	27.74
NGC 2632	135.391771	17.710371	4355.95	78.36	1.89	0.53	-0.56	0.15	32.42	27.73
NGC 2632	131.920990	18.575157	5682.54	141.88	3.98	0.58	0.22	0.14	30.69	27.87
NGC 2632	131.729470	18.122919	6748.69	166.98	4.13	0.37	-0.06	0.17	31.04	27.95

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2632	131.665540	18.452287	4638.10	62.60	2.53	0.45	0.01	0.09	37.13	21.28
NGC 2632	132.201560	18.295979	5684.56	170.86	4.14	0.54	0.38	0.16	28.25	25.80
NGC 2632	132.660430	19.421259	5557.83	137.65	4.06	0.56	0.07	0.15	37.55	20.41
NGC 2632	132.277920	19.686497	5432.46	79.80	4.63	0.38	0.29	0.09	29.25	26.95
NGC 2632	132.891330	20.563559	4637.92	108.06	2.31	0.50	-0.24	0.16	32.50	27.69
NGC 2632	133.869100	19.385534	4604.88	54.81	2.07	0.58	-0.67	0.11	25.15	20.29
NGC 2632	133.658650	19.677519	6666.18	74.73	4.15	0.36	-0.08	0.09	23.91	17.62
NGC 2632	133.892660	19.637554	4841.51	126.58	2.21	0.65	-0.47	0.21	28.67	26.33
NGC 2632	132.906970	20.045153	4833.11	72.80	2.33	0.60	-0.37	0.12	29.06	26.76
NGC 2632	133.377420	19.003272	5758.30	75.75	4.26	0.51	-0.02	0.09	26.90	23.69
NGC 2632	136.022450	19.743475	5653.30	123.95	4.23	0.50	0.28	0.12	37.57	20.37
NGC 2632	135.798330	19.147999	4864.33	78.12	2.42	0.60	-0.37	0.13	30.34	27.73
NGC 2632	135.686910	19.490892	4882.93	124.99	3.20	0.50	-0.01	0.16	36.65	22.23
NGC 2632	135.497110	19.343432	5663.70	210.88	4.09	0.58	0.28	0.20	25.69	21.40
NGC 2632	134.562740	18.148578	4906.13	79.95	2.42	0.65	-0.40	0.14	25.00	19.97
NGC 2632	134.407320	19.764620	4697.63	125.67	2.44	0.53	-0.11	0.18	23.78	17.34
NGC 2632	134.781280	19.575125	6661.62	83.47	4.10	0.37	0.15	0.08	27.17	24.16
NGC 2632	134.159090	19.009584	4781.61	66.88	3.76	0.33	0.34	0.09	30.14	27.62
NGC 2632	134.233070	20.841125	4549.74	101.64	2.77	0.44	-0.11	0.14	29.34	27.03
NGC 2632	134.775430	20.014608	5236.40	150.18	3.84	0.52	0.29	0.17	28.28	25.84
NGC 2632	132.219090	19.061745	4847.17	108.25	2.44	0.61	-0.34	0.17	31.60	27.97
NGC 2632	134.153020	22.193408	5514.42	279.21	3.28	0.71	-0.54	0.40	24.93	19.82
NGC 2632	133.452340	21.792651	4854.38	78.64	2.54	0.56	-0.20	0.12	32.73	27.56
NGC 2632	133.702430	22.226471	6042.14	175.55	4.20	0.51	0.30	0.15	29.67	27.31
NGC 2632	134.797820	21.687571	4796.46	103.68	4.78	0.28	0.19	0.13	31.63	27.96
NGC 2632	134.547300	22.191103	4105.66	36.51	4.89	0.16	0.31	0.14	27.47	24.65
NGC 2632	131.472100	21.038137	5212.30	78.51	4.61	0.32	0.54	0.09	33.00	27.38
NGC 2632	131.444340	21.079052	5761.48	170.43	4.48	0.54	-0.17	0.20	28.61	26.26
NGC 2632	130.898070	20.189587	6293.29	85.78	4.30	0.43	0.14	0.09	24.06	17.95
NGC 2632	131.202840	20.290502	4618.27	124.00	4.70	0.24	0.33	0.15	27.83	25.20
NGC 2632	133.420200	21.201347	6873.30	77.85	4.10	0.34	-0.02	0.09	25.02	20.01
NGC 2632	132.531410	20.975985	6068.38	92.50	4.21	0.49	0.10	0.09	28.46	26.07
NGC 2632	132.932510	21.093046	4799.02	63.11	3.49	0.39	-0.01	0.09	25.84	21.70
NGC 2632	133.556290	21.089178	4647.76	109.61	2.27	0.60	-0.51	0.17	30.37	27.74
NGC 2632	132.849430	21.251805	4292.32	66.95	4.80	0.17	-0.15	0.13	33.07	27.33
NGC 2632	132.177910	22.044527	6480.50	281.01	4.19	0.48	-0.06	0.27	26.42	22.82
NGC 2632	132.296380	21.397675	6603.37	209.83	4.12	0.43	0.05	0.19	34.21	26.18
NGC 2632	131.964640	21.491735	4799.65	159.64	3.00	0.54	-0.19	0.21	27.93	25.35
NGC 2632	131.854340	21.445818	4827.86	81.77	2.40	0.55	-0.23	0.13	32.78	27.53
NGC 2632	132.231850	21.997360	4602.87	111.04	2.80	0.42	0.09	0.14	38.27	18.88
NGC 2632	135.382722	22.716607	4764.13	84.78	2.58	0.54	-0.23	0.13	32.38	27.75
NGC 2632	135.609854	22.778359	4615.79	170.72	2.23	0.62	-0.43	0.25	35.60	24.14
NGC 2632	136.199896	21.537770	5374.06	96.19	4.56	0.43	0.07	0.12	27.90	25.31
NGC 2632	134.452396	23.858215	4811.23	99.73	2.65	0.63	-0.47	0.15	26.99	23.85
NGC 2632	135.473400	16.260406	4781.60	92.74	3.40	0.40	0.21	0.12	37.02	21.50
NGC 2632	125.133890	23.387848	6102.90	106.14	4.39	0.45	-0.06	0.12	27.23	24.26
NGC 2632	125.418860	23.618845	4742.78	83.21	3.32	0.39	0.06	0.11	32.17	27.84
NGC 2632	125.007610	23.609112	4814.10	69.95	3.67	0.36	0.10	0.09	28.82	26.50
NGC 2632	125.238890	23.862347	5807.85	106.64	4.26	0.52	0.08	0.11	23.91	17.62
NGC 2632	127.286100	25.180689	5978.60	125.58	4.07	0.55	0.15	0.12	29.59	27.25
NGC 2632	127.142610	24.831463	5037.51	104.22	3.19	0.63	-0.48	0.15	34.91	25.24
NGC 2632	126.736440	24.562162	6457.07	115.47	4.22	0.44	0.06	0.12	30.40	27.76
NGC 2632	126.650970	23.840544	6392.22	110.04	4.28	0.39	-0.20	0.12	35.59	24.16
NGC 2632	127.354640	23.847322	4831.64	89.84	2.39	0.63	-0.58	0.15	28.32	25.89
NGC 2632	126.012470	24.486580	4949.22	93.29	2.40	0.70	-0.55	0.16	36.61	22.31
NGC 2632	131.729470	18.122919	6590.38	84.13	4.13	0.38	-0.05	0.09	31.36	27.98
NGC 2632	132.201560	18.295979	5712.49	90.27	4.20	0.49	0.34	0.09	31.13	27.96
NGC 2632	131.356990	18.713318	4794.33	53.53	4.73	0.25	0.21	0.07	34.40	25.94
NGC 2632	132.128860	17.997749	4728.31	50.29	4.70	0.24	0.11	0.07	37.70	20.10

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Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2632	132.079940	18.113371	5060.24	103.03	3.02	0.59	-0.12	0.14	33.74	26.72
NGC 2632	132.211470	18.056435	5626.83	70.34	4.52	0.43	0.06	0.09	24.91	19.78
NGC 2632	132.434860	19.352721	4028.50	26.19	4.65	0.19	-0.32	0.08	31.72	27.95
NGC 2632	132.277920	19.686497	5439.76	71.23	4.62	0.38	0.29	0.09	30.70	27.87
NGC 2632	132.166800	20.597801	5796.01	82.08	4.43	0.46	-0.00	0.10	26.55	23.06
NGC 2632	132.891330	20.563559	4730.02	62.19	2.52	0.50	-0.24	0.10	34.29	26.09
NGC 2632	133.250460	20.053612	5348.71	73.44	4.61	0.41	-0.15	0.10	34.63	25.64
NGC 2632	133.869100	19.385534	4878.17	46.12	2.40	0.53	-0.24	0.09	23.77	17.32
NGC 2632	133.658650	19.677519	6685.54	78.13	4.16	0.35	-0.03	0.09	29.66	27.30
NGC 2632	133.892660	19.637554	4925.87	77.95	2.44	0.61	-0.41	0.13	31.55	27.97
NGC 2632	133.759220	20.398317	4209.56	34.74	4.71	0.18	-0.04	0.07	27.06	23.97
NGC 2632	133.710820	18.476883	4592.95	49.25	3.01	0.35	0.15	0.07	28.26	25.81
NGC 2632	133.377420	19.003272	5818.15	80.53	4.36	0.48	0.03	0.09	24.41	18.71
NGC 2632	132.975330	19.163876	4777.30	38.08	3.28	0.41	-0.21	0.06	38.94	17.43
NGC 2632	135.354450	19.898643	4508.08	94.74	4.60	0.23	0.06	0.14	27.86	25.25
NGC 2632	135.286780	19.864210	5292.73	89.76	3.58	0.61	-0.25	0.12	25.15	20.29
NGC 2632	136.022450	19.743475	5669.50	97.46	4.24	0.49	0.29	0.10	36.98	21.58
NGC 2632	135.798330	19.147999	4865.44	74.17	2.41	0.60	-0.37	0.12	28.75	26.42
NGC 2632	135.971660	19.505865	4697.95	63.63	3.35	0.37	0.09	0.09	25.66	21.34
NGC 2632	135.686910	19.490892	4918.25	68.98	3.30	0.47	-0.01	0.10	36.80	21.94
NGC 2632	134.445660	17.661064	6410.57	88.22	4.03	0.42	-0.13	0.10	25.42	20.85
NGC 2632	134.543380	18.964024	5099.37	115.73	3.41	0.58	-0.30	0.16	34.94	25.19
NGC 2632	134.488330	19.204826	4227.31	39.70	2.44	0.38	-0.26	0.09	38.97	17.36
NGC 2632	134.159090	19.009584	4902.54	65.81	3.78	0.36	0.26	0.09	27.50	24.70
NGC 2632	134.124410	18.671792	4715.73	56.98	4.66	0.26	0.01	0.08	32.42	27.73
NGC 2632	134.493220	20.225445	4857.29	67.95	3.12	0.45	0.06	0.10	29.47	27.15
NGC 2632	134.233070	20.841125	4647.37	60.46	2.90	0.43	-0.15	0.09	29.80	27.41
NGC 2632	134.311040	20.929701	4304.40	45.88	4.76	0.18	-0.29	0.09	34.33	26.03
NGC 2632	134.345060	21.389428	3875.26	19.44	4.57	0.17	-0.64	0.11	29.21	26.91
NGC 2632	134.775430	20.014608	5284.72	128.00	3.82	0.52	0.20	0.15	29.74	27.36
NGC 2632	131.303220	19.808611	4055.41	32.84	4.74	0.19	-0.20	0.09	27.71	25.02
NGC 2632	131.304600	19.686876	5636.16	57.58	4.55	0.41	0.26	0.07	31.91	27.91
NGC 2632	131.110400	19.793267	4080.59	30.45	4.65	0.19	0.01	0.07	33.57	26.89
NGC 2632	130.965760	19.913557	4081.11	36.74	4.62	0.19	-0.02	0.08	30.28	27.70
NGC 2632	130.986220	19.725588	4546.82	46.49	4.70	0.21	0.08	0.07	34.42	25.92
NGC 2632	132.219090	19.061745	4863.18	48.88	2.51	0.56	-0.33	0.09	37.86	19.76
NGC 2632	131.329800	19.002989	4253.24	37.86	4.66	0.19	-0.04	0.07	32.69	27.58
NGC 2632	131.197840	19.050350	4949.79	79.36	2.92	0.60	-0.38	0.12	25.78	21.58
NGC 2632	131.697060	19.644683	6028.60	68.58	4.37	0.47	0.18	0.08	32.70	27.58
NGC 2632	131.659190	19.765478	6088.37	96.91	4.17	0.52	0.03	0.10	36.38	22.75
NGC 2632	134.153020	22.193408	6015.60	96.45	4.08	0.52	-0.38	0.12	30.16	27.64
NGC 2632	133.452340	21.792651	4846.63	71.43	2.52	0.54	-0.19	0.11	37.32	20.89
NGC 2632	133.489460	22.416721	4314.92	38.32	4.61	0.18	0.05	0.07	25.71	21.44
NGC 2632	133.702430	22.226471	6005.85	102.22	4.18	0.48	0.30	0.09	27.38	24.51
NGC 2632	135.816250	20.986771	6206.73	95.16	4.08	0.50	-0.17	0.11	37.97	19.53
NGC 2632	131.444340	21.079052	5788.45	250.64	4.42	0.57	-0.21	0.29	27.04	23.94
NGC 2632	130.898070	20.189587	6323.66	100.07	4.29	0.44	0.16	0.10	28.32	25.89
NGC 2632	131.618520	20.211439	6525.14	90.98	4.17	0.41	0.22	0.09	32.37	27.75
NGC 2632	131.871670	20.768147	4066.61	32.52	4.59	0.20	-0.04	0.08	32.83	27.50
NGC 2632	130.950210	20.619692	4606.44	64.90	2.68	0.47	-0.19	0.10	28.02	25.48
NGC 2632	131.708850	21.020250	4647.23	49.83	4.72	0.23	0.16	0.07	31.18	27.97
NGC 2632	131.358180	20.427322	3990.60	29.96	4.45	0.21	-0.81	0.13	32.20	27.82
NGC 2632	131.280630	20.394964	5413.14	74.53	4.61	0.39	0.28	0.09	32.06	27.87
NGC 2632	131.202840	20.290502	4746.72	54.12	4.69	0.24	0.24	0.07	32.06	27.87
NGC 2632	132.531410	20.975985	6115.00	65.32	4.28	0.45	0.13	0.07	34.16	26.25
NGC 2632	132.932510	21.093046	4784.85	52.04	3.47	0.37	0.00	0.08	33.68	26.78
NGC 2632	132.849430	21.251805	4465.46	46.05	4.71	0.19	-0.35	0.08	33.33	27.11
NGC 2632	133.358660	20.858778	4231.16	36.20	4.22	0.35	-1.54	0.15	30.16	27.64
NGC 2632	132.121520	22.012314	5191.79	88.16	3.65	0.50	0.05	0.11	23.79	17.36

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2632	132.296380	21.397675	6546.19	172.36	4.14	0.42	0.03	0.16	34.32	26.05
NGC 2632	132.283220	21.458998	6269.31	87.46	4.15	0.44	-0.18	0.10	24.00	17.82
NGC 2632	131.964640	21.491735	4909.39	72.71	3.13	0.50	-0.16	0.11	24.25	18.36
NGC 2632	131.854340	21.445818	4853.08	73.28	2.45	0.54	-0.21	0.12	34.61	25.66
NGC 2632	132.231850	21.997360	4671.85	64.39	2.87	0.41	0.04	0.09	31.13	27.96
NGC 2632	132.519650	22.258606	4553.19	65.63	4.74	0.24	-0.37	0.11	23.63	17.01
NGC 2632	134.110690	24.207336	5939.52	90.21	4.29	0.50	0.01	0.10	26.83	23.57
NGC 2632	134.162593	24.054246	4991.48	67.66	4.63	0.30	0.21	0.09	25.65	21.32
NGC 2632	133.429547	24.601077	5247.79	61.61	4.56	0.36	0.24	0.08	24.10	18.04
NGC 2632	134.416150	24.187261	5873.19	94.54	3.88	0.59	-0.23	0.11	35.45	24.39
NGC 2632	133.079156	24.141969	5599.60	154.94	4.04	0.52	0.49	0.14	33.47	26.99
NGC 2632	132.379109	24.734059	5659.94	76.87	4.49	0.44	0.19	0.09	35.56	24.21
NGC 2632	135.617540	21.277355	6736.39	79.93	4.07	0.36	0.13	0.08	30.09	27.60
NGC 2632	136.296260	20.753208	4661.78	81.89	2.56	0.45	0.07	0.12	24.37	18.62
NGC 2632	136.376510	20.463882	5788.25	71.36	3.73	0.51	0.42	0.07	31.84	27.93
NGC 2632	135.043850	22.383886	5875.78	80.59	4.13	0.58	-0.26	0.11	36.46	22.60
NGC 2632	135.617540	21.277355	6740.20	87.87	4.08	0.36	0.13	0.09	32.05	27.88
NGC 2632	135.382760	22.716627	4741.53	85.71	2.52	0.52	-0.22	0.13	33.63	26.83
NGC 2632	135.126410	23.640743	5917.20	376.35	3.97	0.90	-0.94	0.49	23.63	17.01
NGC 2632	136.140550	17.303307	5843.62	78.73	4.19	0.49	0.31	0.08	27.54	24.76
NGC 2632	135.688620	18.053759	6375.87	81.48	4.25	0.38	-0.46	0.11	34.26	26.12
NGC 2632	136.155800	18.537409	4990.53	51.08	4.66	0.33	-0.29	0.09	26.45	22.88
NGC 2632	136.176020	19.705446	4834.70	154.29	4.90	0.28	0.18	0.20	37.55	20.41
NGC 2632	136.140550	17.303307	5835.32	74.86	4.19	0.48	0.31	0.08	28.28	25.84
NGC 2632	136.389000	18.378698	4911.87	60.85	2.64	0.54	-0.07	0.10	31.73	27.95
NGC 2632	135.593200	18.373280	4845.94	70.70	4.75	0.27	0.17	0.10	24.69	19.31
NGC 2632	135.798330	19.147999	4864.00	64.77	2.38	0.58	-0.37	0.11	25.90	21.82
NGC 2632	129.373059	21.621247	5084.93	147.43	3.07	0.69	-0.52	0.21	27.74	25.07
NGC 2632	129.482304	21.690101	4897.49	122.67	3.08	0.58	-0.43	0.17	36.70	22.13
NGC 2632	128.016977	21.970972	5462.05	126.96	4.53	0.43	0.24	0.14	26.09	22.19
NGC 2632	127.841089	22.047586	6032.04	134.17	4.45	0.47	-0.13	0.15	27.17	24.16
NGC 2632	127.594922	22.632145	6078.94	127.45	4.13	0.51	-0.03	0.13	27.34	24.44
NGC 2632	127.649654	22.053541	4664.33	104.10	2.59	0.46	0.10	0.14	29.63	27.28
NGC 2632	127.706233	24.226279	4801.32	160.05	2.49	0.61	-0.29	0.23	24.81	19.57
NGC 2632	128.223146	24.381300	6200.33	94.96	4.14	0.47	-0.08	0.10	28.20	25.73
NGC 2632	128.007309	23.807148	5226.01	117.21	3.75	0.57	-0.17	0.15	34.54	25.76
NGC 2632	129.530082	23.728031	5030.34	105.67	3.12	0.63	-0.47	0.15	37.17	21.20
NGC 2632	128.428953	23.761734	4889.44	70.03	4.70	0.28	0.20	0.09	31.27	27.98
NGC 2632	127.735560	23.374571	4854.32	104.41	3.08	0.56	-0.37	0.15	32.43	27.73
NGC 2632	127.964824	23.151081	4382.75	68.17	2.21	0.48	-0.34	0.12	32.91	27.44
NGC 2632	128.227600	22.789481	4372.63	58.74	4.67	0.20	-0.50	0.11	31.92	27.91
NGC 2632	127.966671	22.882824	4324.12	68.40	4.76	0.21	-0.62	0.14	33.02	27.36
NGC 2632	131.142617	23.891819	4796.87	238.53	2.54	0.76	-0.68	0.34	35.71	23.96
NGC 2632	131.212945	23.362228	5182.59	267.41	3.99	0.59	-0.14	0.32	28.91	26.60
NGC 2632	130.501985	22.453947	5496.04	86.01	4.31	0.43	0.26	0.10	28.30	25.86
NGC 2632	130.408365	22.342695	4549.73	62.76	2.80	0.40	-0.14	0.09	35.87	23.68
NGC 2632	130.603704	22.614230	5728.79	157.22	4.15	0.58	-0.15	0.17	37.11	21.32
NGC 2632	130.749753	22.173242	4765.00	103.04	2.85	0.52	-0.32	0.15	38.76	17.82
NGC 2632	130.390038	22.159946	4678.98	89.70	3.18	0.41	-0.10	0.12	31.48	27.98
NGC 2632	130.259912	22.190576	5036.28	124.80	3.52	0.52	-0.11	0.16	33.73	26.73
NGC 2632	130.538321	23.872761	5244.87	118.40	3.54	0.65	-0.50	0.16	25.63	21.27
NGC 2632	130.419337	23.989121	5761.94	102.30	4.40	0.47	0.20	0.11	23.97	17.75
NGC 2632	129.819226	23.760378	4631.99	62.87	2.59	0.42	0.11	0.09	24.09	18.01
NGC 2632	129.896022	25.405476	4247.22	95.52	4.65	0.23	-0.58	0.20	32.22	27.82
NGC 2632	130.381838	24.312622	5016.13	125.36	3.06	0.65	-0.48	0.18	34.72	25.51
NGC 2632	130.523152	24.076120	6265.41	126.72	4.32	0.45	0.15	0.12	25.75	21.52
NGC 2632	126.856369	23.685016	4344.53	72.02	4.67	0.20	-0.14	0.13	24.51	18.92
NGC 2632	127.354938	23.847308	4851.45	82.17	2.45	0.64	-0.55	0.14	29.05	26.75
NGC 2632	129.426417	25.600831	6514.40	132.86	4.13	0.41	0.15	0.12	37.92	19.63



(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2632	127.462415	24.858282	5542.88	130.15	4.45	0.50	-0.06	0.15	38.97	17.36
NGC 2632	127.142684	24.831442	5035.18	88.86	3.21	0.60	-0.46	0.13	31.63	27.96
NGC 2632	126.736615	24.562160	6415.91	113.39	4.24	0.41	-0.03	0.12	26.13	22.27
NGC 2632	129.165437	25.393947	5342.35	114.51	3.49	0.65	-0.32	0.15	31.85	27.93
NGC 2632	127.286794	25.180682	5986.69	131.32	4.09	0.53	0.16	0.12	29.60	27.25
NGC 2632	134.637090	15.859895	4774.47	55.47	4.71	0.26	0.04	0.08	28.77	26.44
NGC 2632	134.441200	15.602114	3874.07	24.48	4.59	0.17	-0.34	0.11	38.25	18.93
NGC 2632	135.940200	16.959053	4757.08	71.29	2.73	0.51	-0.25	0.11	30.88	27.92
NGC 2632	134.070040	14.859074	4721.86	68.93	2.52	0.48	-0.10	0.10	29.02	26.72
NGC 2632	133.865330	15.445679	4714.11	70.95	2.85	0.45	-0.12	0.10	30.54	27.82
NGC 2632	132.945730	15.478458	4690.06	76.73	2.70	0.51	-0.29	0.12	27.66	24.95
NGC 2632	132.712000	16.892859	4328.03	71.31	4.57	0.20	-0.08	0.12	30.95	27.94
NGC 2632	132.975310	16.655691	4865.81	85.23	2.40	0.59	-0.33	0.14	28.80	26.48
NGC 2632	133.072710	16.982933	4557.40	66.25	2.82	0.40	0.04	0.09	33.40	27.05
NGC 2632	133.686530	17.340340	4910.42	89.51	3.23	0.52	-0.25	0.13	33.26	27.17
NGC 2632	133.958410	17.770565	4814.08	56.94	4.64	0.26	0.20	0.08	36.68	22.17
NGC 2632	133.860780	15.888425	4908.24	84.16	2.40	0.63	-0.42	0.14	24.99	19.95
NGC 2632	133.814720	16.416354	4892.01	131.19	3.56	0.45	0.01	0.17	25.11	20.20
NGC 2632	133.234660	15.751513	5026.13	70.18	4.65	0.31	0.20	0.09	25.37	20.74
NGC 2632	135.473400	16.260405	4752.67	66.26	3.41	0.34	0.28	0.09	29.85	27.44
NGC 2632	134.346470	16.695581	4714.99	66.40	2.92	0.47	-0.23	0.10	35.68	24.01
NGC 2632	134.571430	15.807434	4272.85	48.05	4.69	0.19	-0.20	0.10	31.63	27.96
NGC 2632	134.687000	17.421330	6003.44	155.47	4.43	0.49	0.18	0.15	24.57	19.05
NGC 2632	134.663000	18.286491	5255.32	78.15	4.58	0.36	0.24	0.10	33.85	26.60
NGC 2632	134.598940	17.553043	4719.15	65.51	4.66	0.27	-0.17	0.10	30.52	27.81
NGC 2632	131.774250	16.949488	4886.87	90.83	3.59	0.45	-0.07	0.12	31.20	27.97
NGC 2632	131.808820	16.396496	6045.22	99.75	4.37	0.46	0.16	0.10	31.52	27.97
NGC 2632	131.822340	16.079134	4848.72	79.27	2.51	0.53	-0.16	0.12	26.69	23.32
NGC 2632	132.543200	16.498825	5892.04	87.59	4.34	0.48	0.05	0.10	35.09	24.97
NGC 2632	132.071800	16.913162	4326.05	47.59	4.64	0.18	0.04	0.08	27.78	25.13
NGC 2632	133.377420	19.003272	5829.41	108.17	4.34	0.51	0.04	0.12	25.24	20.47
NGC 2632	133.197810	19.507105	5482.92	108.53	3.88	0.55	0.10	0.12	24.04	17.91
NGC 2632	133.869100	19.385534	4852.05	80.21	2.50	0.56	-0.27	0.13	31.52	27.97
NGC 2632	133.892660	19.637554	4897.91	93.64	2.41	0.63	-0.40	0.15	28.50	26.12
NGC 2632	134.543380	18.964024	5098.67	91.88	3.41	0.56	-0.28	0.13	34.37	25.98
NGC 2632	134.894170	19.390499	5774.08	117.28	4.23	0.55	-0.33	0.14	32.22	27.82
NGC 2632	135.593200	18.373280	4841.65	65.77	4.67	0.28	0.07	0.09	24.78	19.50
NGC 2632	135.843480	18.033945	4949.26	78.30	3.09	0.52	-0.17	0.12	30.40	27.76
NGC 2632	135.391780	17.710364	4397.67	72.22	1.88	0.48	-0.46	0.13	36.48	22.56
NGC 2632	131.276280	17.365329	4663.93	87.86	2.41	0.50	-0.17	0.13	31.02	27.95
NGC 2632	131.688370	17.479609	4885.78	82.44	2.98	0.53	-0.13	0.12	31.25	27.98
NGC 2632	132.128860	17.997749	4733.54	56.49	4.68	0.26	0.09	0.08	29.85	27.44
NGC 2632	132.728810	18.025822	5967.62	100.46	4.20	0.52	0.00	0.11	33.10	27.30
NGC 2632	133.536050	18.477393	3959.73	33.04	4.59	0.18	-0.14	0.10	30.05	27.57
NGC 2632	132.219090	19.061745	4877.46	81.12	2.48	0.57	-0.30	0.13	35.34	24.57
NGC 2632	132.115990	18.345543	5675.65	96.36	4.55	0.44	0.24	0.10	30.02	27.55
NGC 2632	132.660430	19.421259	5505.06	106.54	3.97	0.55	0.03	0.12	36.51	22.50
NGC 2168	94.147811	24.789627	6424.17	213.74	4.24	0.37	-0.26	0.25	-6.84	20.44
NGC 2168	93.731662	24.915585	7156.78	251.44	4.02	0.44	0.10	0.28	-15.46	19.19
NGC 2168	92.828746	26.250820	6120.14	242.79	4.23	0.50	-0.07	0.23	-10.24	24.49
NGC 2168	92.051968	26.247758	7358.36	184.75	3.99	0.38	0.15	0.17	-12.92	23.38
NGC 2168	92.848182	26.197265	6302.21	198.77	4.15	0.48	-0.14	0.19	-7.83	22.15
NGC 2168	94.134532	25.299718	7706.87	380.23	3.64	0.53	-0.18	0.54	-14.54	20.97
NGC 2168	90.602347	24.606427	6279.30	185.66	4.00	0.50	-0.06	0.17	-15.69	18.71
NGC 2168	92.471809	26.086592	6682.07	232.80	4.16	0.40	-0.17	0.24	-11.30	24.53
NGC 2168	91.484959	25.905111	5523.39	172.86	4.40	0.52	-0.02	0.19	-4.40	15.21
NGC 2168	90.389083	24.829755	6811.47	179.70	3.77	0.44	0.09	0.17	-13.54	22.59
NGC 2168	90.760370	24.139126	5898.53	219.44	3.85	0.66	-0.45	0.24	-9.69	24.22
NGC 2168	90.547047	25.383959	7325.56	212.57	4.08	0.38	-0.11	0.24	-8.84	23.49

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2168	93.095978	25.825849	7087.87	181.68	4.15	0.38	-0.23	0.23	-14.84	20.42
NGC 2168	92.944597	25.411924	5128.96	167.88	3.61	0.63	-0.46	0.23	-8.81	23.45
NGC 2168	92.323975	25.793085	5780.35	213.98	4.18	0.60	0.01	0.21	-9.59	24.16
NGC 2168	93.036766	25.323962	6319.35	190.05	4.25	0.45	-0.05	0.18	-9.41	24.02
NGC 2168	92.842216	25.331213	6187.51	196.20	4.05	0.53	0.05	0.18	-9.97	24.38
NGC 2168	92.109713	24.459889	6123.71	208.20	4.19	0.54	-0.14	0.20	-12.40	23.90
NGC 2168	91.571524	25.821115	5985.84	190.69	4.36	0.52	-0.14	0.20	-13.87	22.10
NGC 2168	92.034645	26.047425	5281.13	120.92	4.76	0.39	-0.15	0.17	-16.05	17.94
NGC 2168	92.355538	25.996685	6519.82	201.03	4.11	0.44	-0.09	0.20	-16.15	17.72
NGC 2168	91.800758	25.360915	4999.31	110.99	4.72	0.34	-0.19	0.16	-13.94	21.99
NGC 2168	91.383983	25.623056	6711.68	194.15	4.07	0.44	0.04	0.20	-12.77	23.55
NGC 2168	92.014220	26.223825	6369.53	191.44	4.06	0.50	0.06	0.17	-10.02	24.41
NGC 2168	94.080546	25.228505	4987.24	199.88	2.26	0.74	-0.70	0.30	-6.06	18.88
NGC 2168	93.051732	25.797561	4331.36	84.12	4.80	0.19	-0.04	0.15	-6.08	18.92
NGC 2168	92.573681	25.732616	3892.14	41.60	4.51	0.20	-0.47	0.20	-9.49	24.09
NGC 2168	92.770329	25.511634	5310.08	199.17	4.00	0.54	0.19	0.22	-7.17	21.05
NGC 2168	93.406855	24.992339	5969.13	274.25	3.56	0.74	-0.58	0.31	-12.09	24.15
NGC 2168	93.429194	25.489711	4749.49	126.87	4.34	0.34	-0.24	0.18	-7.51	21.64
NGC 2168	92.359411	25.930324	5792.52	225.99	4.15	0.59	0.13	0.21	-7.06	20.85
NGC 2168	93.435031	25.537746	5902.12	255.48	3.93	0.64	-0.22	0.26	-12.15	24.11
NGC 2168	90.881706	23.439650	6703.38	110.62	4.12	0.36	-0.21	0.13	-7.98	22.38
NGC 2168	91.394663	24.042456	6625.86	195.18	4.19	0.39	-0.10	0.19	-17.06	15.69
NGC 2168	91.936363	23.917709	6297.63	184.59	4.21	0.46	-0.07	0.17	-9.30	23.93
NGC 2168	91.570607	24.002285	6389.44	225.00	4.16	0.49	-0.08	0.22	-12.11	24.13
NGC 2168	91.057711	23.531181	7531.32	193.71	3.97	0.39	-0.06	0.20	-4.63	15.74
NGC 2168	91.218964	22.903419	5858.32	177.63	4.38	0.51	-0.47	0.22	-6.21	19.19
NGC 2168	91.361919	23.031602	8029.97	115.42	4.06	0.29	-0.16	0.16	-10.34	24.53
NGC 2168	91.285314	23.050437	5861.41	148.41	4.42	0.48	-0.19	0.17	-13.00	23.29
NGC 2168	90.528710	23.989446	6436.97	206.50	4.21	0.44	-0.12	0.20	-6.27	19.31
NGC 2168	90.591575	23.597684	5524.71	142.19	4.52	0.47	-0.16	0.17	-10.70	24.59
NGC 2168	90.368515	23.602334	7257.77	186.44	4.16	0.34	0.04	0.18	-7.30	21.28
NGC 2168	90.257897	24.956151	6360.55	159.63	4.23	0.44	-0.13	0.16	-13.85	22.13
NGC 2168	90.424992	24.638177	7188.64	149.17	4.09	0.38	-0.10	0.18	-9.71	24.24
NGC 2168	90.358741	24.764673	6369.81	193.49	4.02	0.48	-0.14	0.19	-11.45	24.49
NGC 2168	90.378948	24.398207	7145.47	182.89	4.11	0.37	-0.11	0.21	-6.36	19.50
NGC 2168	91.328135	25.836932	7110.55	209.09	4.11	0.36	-0.24	0.25	-7.96	22.35
NGC 2168	91.486180	25.576937	6773.44	135.04	4.19	0.34	-0.19	0.15	-13.97	21.94
NGC 2168	90.869494	23.456549	8035.38	88.46	3.95	0.34	0.02	0.12	-13.60	22.51
NGC 2168	91.475382	24.185925	8277.64	206.83	3.83	0.50	-0.31	0.25	-11.90	24.27
NGC 2168	90.776958	23.753483	7143.92	142.81	3.83	0.38	0.62	0.12	-11.78	24.34
NGC 2168	91.403581	23.977497	7889.32	198.52	4.25	0.33	0.01	0.19	-5.17	16.95
NGC 2168	91.502833	23.891186	6440.79	195.53	4.27	0.44	0.04	0.18	-6.51	19.80
NGC 2168	91.240447	23.495492	6523.43	152.44	4.20	0.41	-0.01	0.15	-8.86	23.51
NGC 2168	91.261982	22.852105	5897.65	217.77	3.97	0.55	-0.27	0.23	-14.72	20.64
NGC 2168	91.343069	22.823176	7000.30	148.04	4.06	0.34	-0.17	0.17	-10.42	24.55
NGC 2168	90.517197	24.050892	6180.35	183.88	4.38	0.47	-0.07	0.18	-12.01	24.20
NGC 2168	90.701278	24.143704	6671.77	134.84	4.21	0.27	-0.09	0.17	-4.33	15.06
NGC 2168	90.222331	24.403373	6294.41	158.59	4.19	0.44	-0.43	0.18	-9.77	24.27
NGC 2168	90.412271	24.970630	6199.12	183.05	4.05	0.51	-0.32	0.20	-4.32	15.03
NGC 2168	90.728126	25.619984	6364.13	224.64	4.27	0.45	-0.21	0.23	-9.09	23.74
NGC 2168	91.380498	25.735876	6309.05	264.26	4.15	0.47	-0.37	0.28	-6.31	19.40
NGC 2168	91.523171	25.584700	6126.27	243.12	4.25	0.52	-0.07	0.23	-15.48	19.15
NGC 2168	91.209979	25.447833	6343.22	189.06	4.25	0.46	-0.06	0.18	-12.91	23.40
NGC 2168	94.065251	25.375879	7335.04	238.05	4.04	0.51	-0.07	0.32	-4.82	16.17
NGC 2168	93.341882	25.333593	7035.32	385.82	4.64	0.29	-0.25	0.60	-9.50	24.09
NGC 2168	93.284584	25.788422	6428.59	231.56	4.25	0.45	0.07	0.20	-9.66	24.21
NGC 2168	92.298142	26.154747	6585.70	254.33	4.06	0.43	-0.09	0.24	-4.90	16.35
NGC 2168	93.731662	24.915585	7118.42	442.81	4.10	0.46	-0.06	0.47	-10.87	24.59
NGC 2168	93.590945	25.547591	5938.74	292.61	4.77	0.46	0.30	0.26	-8.34	22.88

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{km s}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2168	93.934091	25.623492	6302.56	415.35	4.13	0.48	-0.13	0.39	-12.23	24.05
NGC 2168	92.568136	25.646448	7178.57	389.80	3.93	0.43	-0.19	0.44	-6.05	18.86
NGC 2168	93.717070	25.143957	7005.40	338.35	4.18	0.36	-0.21	0.36	-4.94	16.44
NGC 2168	92.460236	26.225783	6614.85	313.91	4.29	0.46	-0.06	0.32	-5.00	16.57
NGC 2168	91.907902	23.357105	7058.46	151.67	3.86	0.37	0.04	0.16	-7.79	22.09
NGC 2168	92.472198	23.357197	6049.76	121.33	4.37	0.47	-0.15	0.13	-10.31	24.52
NGC 2168	91.971942	23.017690	6707.50	138.29	4.16	0.37	0.04	0.13	-6.00	18.75
NGC 2168	92.042868	22.902265	6312.84	110.74	4.10	0.46	0.24	0.10	-8.38	22.94
NGC 2168	92.221393	22.794810	6020.36	153.65	3.99	0.55	0.12	0.14	-5.95	18.65
NGC 2168	91.899886	22.525182	6187.90	172.94	4.23	0.47	-0.35	0.19	-15.21	19.69
NGC 2168	93.031929	23.227091	6178.44	114.22	4.34	0.45	-0.24	0.13	-14.52	21.01
NGC 2168	92.929520	23.412587	6346.16	177.34	4.47	0.41	-0.37	0.21	-15.08	19.95
NGC 2168	92.630851	22.833410	5763.70	141.66	4.44	0.50	-0.20	0.17	-8.89	23.54
NGC 2168	92.647509	22.722581	6629.79	139.44	4.17	0.37	-0.24	0.15	-9.53	24.11
NGC 2168	93.121119	23.349079	6704.71	143.79	4.24	0.39	-0.07	0.16	-10.90	24.59
NGC 2168	93.848288	24.232500	6999.56	159.23	4.20	0.34	-0.03	0.17	-4.70	15.89
NGC 2168	93.927360	23.362574	6353.33	141.98	4.25	0.42	-0.21	0.15	-14.90	20.30
NGC 2168	93.719511	23.436493	5750.95	130.09	4.56	0.47	-0.04	0.15	-9.47	24.07
NGC 2168	91.388280	22.785135	5607.02	139.66	4.63	0.45	0.03	0.16	-6.73	20.23
NGC 2168	91.394632	22.664140	5877.92	160.26	4.23	0.54	0.02	0.16	-12.76	23.56
NGC 2168	91.343069	22.823176	7104.85	145.52	4.07	0.35	-0.13	0.17	-15.73	18.62
NGC 2168	92.801698	24.873023	7777.94	217.14	3.72	0.47	-0.06	0.22	-8.84	23.49
NGC 2168	92.485997	24.894766	6987.08	146.28	3.98	0.34	-0.34	0.17	-8.13	22.59
NGC 2168	93.491868	24.832960	7381.40	143.86	4.09	0.46	-0.12	0.21	-6.83	20.42
NGC 2168	93.419010	24.688425	7282.80	117.05	4.12	0.34	-0.17	0.14	-10.19	24.48
NGC 2168	92.946714	25.006934	6766.30	154.43	4.20	0.36	-0.20	0.17	-9.07	23.72
NGC 2168	93.132166	24.503354	7228.90	190.44	4.07	0.37	0.05	0.19	-6.81	20.38
NGC 2168	93.175671	24.694732	6511.57	177.40	4.27	0.40	-0.22	0.19	-15.69	18.71
NGC 2168	94.161446	24.827231	6213.14	182.47	4.08	0.52	-0.03	0.17	-7.89	22.24
NGC 2168	94.099670	24.887013	6721.91	206.74	4.16	0.38	-0.04	0.20	-5.20	17.02
NGC 2168	91.027512	23.857493	6269.79	183.07	4.13	0.45	-0.38	0.20	-12.72	23.60
NGC 2168	90.948252	23.982891	6391.68	121.77	4.23	0.43	-0.10	0.13	-5.55	17.79
NGC 2168	91.401157	23.285383	7093.81	139.84	4.07	0.37	-0.04	0.16	-9.54	24.12
NGC 2168	91.435837	23.581719	7282.48	121.61	4.03	0.35	-0.10	0.14	-8.12	22.58
NGC 2168	91.116778	23.217726	6302.92	159.08	4.22	0.47	0.09	0.15	-8.06	22.49
NGC 2168	91.017033	23.225039	6550.00	105.80	4.09	0.40	-0.14	0.12	-11.50	24.47
NGC 2168	90.831012	23.277369	7132.66	173.11	4.03	0.37	-0.18	0.21	-5.75	18.22
NGC 2168	90.869494	23.456549	8009.39	106.61	4.22	0.33	0.01	0.14	-15.52	19.06
NGC 2168	91.057711	23.531181	7675.93	82.72	4.05	0.26	0.03	0.12	-4.76	16.03
NGC 2168	92.537600	23.872046	8044.64	96.02	4.00	0.30	-0.20	0.13	-11.40	24.50
NGC 2168	93.090187	24.314465	5864.25	163.83	4.00	0.59	0.04	0.16	-12.75	23.57
NGC 2168	92.179334	23.858259	7172.32	77.46	4.13	0.31	-0.12	0.10	-6.20	19.17
NGC 2168	91.871052	23.804441	5862.75	160.87	4.25	0.56	-0.14	0.17	-9.17	23.82
NGC 2168	92.355655	24.067698	6153.59	149.93	4.30	0.48	-0.19	0.16	-16.47	17.01
NGC 2168	92.178160	23.927435	6082.12	168.49	4.22	0.52	-0.28	0.18	-10.00	24.40
NGC 2168	93.410670	23.952132	7808.29	100.62	4.16	0.27	-0.21	0.15	-7.61	21.80
NGC 2168	92.359895	24.185275	6445.05	159.06	4.17	0.42	-0.09	0.16	-6.90	20.55
NGC 2168	92.286025	24.186741	7101.42	139.61	4.10	0.42	-0.08	0.18	-7.89	22.24
NGC 2168	92.394930	24.371249	6499.00	163.09	4.22	0.42	-0.19	0.18	-9.91	24.35
NGC 2168	92.315738	24.378801	6066.33	168.57	4.22	0.53	-0.18	0.18	-9.85	24.32
NGC 2168	92.802020	23.626706	6676.88	168.88	4.22	0.39	-0.09	0.17	-13.85	22.13
NGC 2168	92.559896	24.379369	6561.15	175.33	4.15	0.43	-0.10	0.18	-6.11	18.98
NGC 2168	92.706163	24.385058	6322.88	172.84	4.29	0.43	-0.36	0.19	-10.27	24.50
NGC 2168	92.624426	24.379269	7440.35	134.06	3.84	0.41	0.41	0.12	-9.82	24.30
NGC 2168	92.862341	24.380429	6296.12	174.56	4.29	0.46	-0.06	0.17	-7.97	22.36
NGC 2168	92.523879	23.557876	6430.54	196.62	4.15	0.46	-0.36	0.22	-15.18	19.75
NGC 2168	92.308869	23.600580	6768.77	128.37	4.24	0.36	-0.03	0.14	-7.99	22.39
NGC 2168	90.959261	24.430567	7255.95	149.78	3.99	0.36	-0.05	0.17	-5.74	18.20
NGC 2168	91.528477	24.306586	6822.65	153.14	4.06	0.40	0.11	0.15	-12.31	23.98

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2168	91.475382	24.185925	8100.44	128.15	3.89	0.37	-0.37	0.19	-15.98	18.09
NGC 2168	92.512894	24.709012	7206.08	135.78	3.95	0.36	-0.06	0.15	-8.03	22.45
NGC 2168	92.598593	24.420592	7146.95	144.58	4.11	0.34	-0.15	0.17	-7.41	21.47
NGC 2168	92.337069	24.551409	7741.57	77.76	3.87	0.30	-0.12	0.14	-13.98	21.93
NGC 2168	92.401111	24.868069	7388.36	106.82	3.95	0.36	-0.12	0.13	-8.85	23.50
NGC 2168	92.158984	24.370499	6488.00	207.70	4.19	0.45	-0.09	0.21	-5.99	18.73
NGC 2168	92.112435	24.432569	6765.09	216.88	4.12	0.41	-0.01	0.21	-6.31	19.40
NGC 2168	91.936177	24.436244	6393.34	168.25	4.21	0.45	-0.23	0.19	-7.25	21.19
NGC 2168	91.873896	24.434526	7188.16	152.94	4.05	0.41	-0.05	0.20	-11.39	24.51
NGC 2168	91.709517	24.305752	7927.82	107.62	4.02	0.32	-0.17	0.16	-10.51	24.57
NGC 2168	91.598625	24.387304	6834.65	175.41	4.15	0.37	-0.05	0.18	-7.69	21.93
NGC 2168	91.497277	24.665305	6629.32	149.76	4.20	0.40	0.03	0.15	-6.55	19.88
NGC 2168	91.741867	24.370546	7052.62	97.58	4.00	0.35	0.10	0.11	-15.25	19.61
NGC 2168	92.013391	25.075081	7763.96	86.80	3.91	0.28	0.36	0.10	-8.32	22.86
NGC 2168	92.012982	24.878538	6897.98	155.99	4.12	0.38	-0.03	0.17	-12.66	23.66
NGC 2168	91.666749	22.706766	7840.69	139.83	3.50	0.47	0.27	0.12	-7.61	21.80
NGC 2168	91.933312	23.472527	7402.52	109.00	3.96	0.35	0.09	0.11	-13.42	22.76
NGC 2168	92.281374	23.406623	6052.54	186.89	4.25	0.52	-0.23	0.20	-8.82	23.46
NGC 2168	92.261977	22.979113	6354.16	110.92	4.14	0.41	-0.39	0.13	-12.01	24.20
NGC 2168	92.133273	22.640888	7611.47	161.82	3.94	0.43	-0.03	0.18	-14.68	20.72
NGC 2168	92.101155	22.838292	6468.93	142.57	4.14	0.42	0.11	0.13	-7.76	22.04
NGC 2168	92.130443	22.762256	6537.73	197.03	4.25	0.38	-0.20	0.20	-6.23	19.23
NGC 2168	92.978339	23.481178	4957.20	128.16	2.87	0.61	-0.28	0.18	-4.34	15.08
NGC 2168	93.189620	22.614526	6899.10	129.55	4.17	0.34	-0.20	0.15	-9.23	23.87
NGC 2168	92.657524	22.956961	6119.54	194.92	4.33	0.49	-0.11	0.20	-5.44	17.55
NGC 2168	92.778592	22.712033	5731.02	146.71	3.89	0.60	0.09	0.15	-15.06	19.99
NGC 2168	92.771847	22.640177	7657.20	80.11	3.97	0.35	-0.17	0.17	-13.04	23.24
NGC 2168	93.666814	23.985576	7793.64	148.33	3.86	0.42	0.25	0.14	-6.03	18.82
NGC 2168	93.587361	23.545383	6415.28	100.54	4.20	0.40	-0.13	0.11	-16.06	17.91
NGC 2168	93.459013	23.630526	7136.43	112.81	4.02	0.40	0.07	0.14	-6.57	19.92
NGC 2168	91.261982	22.852105	6001.31	131.63	4.11	0.53	0.09	0.13	-14.22	21.53
NGC 2168	92.810308	24.775991	7380.67	125.99	3.97	0.37	-0.09	0.15	-14.44	21.15
NGC 2168	92.729835	24.869867	6423.47	135.80	4.22	0.41	-0.11	0.14	-8.35	22.90
NGC 2168	92.782448	24.879792	6924.21	140.61	4.14	0.35	-0.11	0.16	-11.76	24.35
NGC 2168	92.538643	24.907491	8400.41	138.29	3.82	0.44	-0.24	0.17	-8.98	23.63
NGC 2168	93.717070	25.143957	6988.44	123.37	4.10	0.33	-0.26	0.15	-4.60	15.67
NGC 2168	93.505177	24.454780	6371.17	144.03	4.26	0.43	-0.13	0.15	-11.45	24.49
NGC 2168	92.646288	24.425876	7158.64	162.41	4.12	0.34	-0.32	0.20	-9.01	23.66
NGC 2168	93.055550	24.500802	7704.17	107.34	4.07	0.31	0.00	0.17	-4.45	15.33
NGC 2168	92.861802	25.302083	6487.64	162.91	4.00	0.45	0.03	0.15	-10.73	24.59
NGC 2168	93.183543	25.264756	5936.70	157.49	4.42	0.51	-0.22	0.18	-12.78	23.54
NGC 2168	93.129961	24.611383	7803.89	98.09	4.10	0.32	-0.20	0.17	-11.15	24.57
NGC 2168	94.223550	24.727493	6190.86	109.58	4.27	0.46	0.02	0.11	-7.70	21.95
NGC 2168	94.274147	24.881831	4902.24	126.10	2.60	0.58	-0.20	0.18	-5.90	18.54
NGC 2168	94.196130	24.520288	6020.44	133.78	4.32	0.48	-0.32	0.16	-6.83	20.42
NGC 2168	91.719955	23.810445	6330.50	191.35	4.16	0.48	-0.16	0.20	-5.88	18.50
NGC 2168	91.502833	23.891186	6333.49	195.77	4.21	0.49	-0.09	0.20	-7.42	21.48
NGC 2168	90.578639	23.517928	8132.37	99.85	4.21	0.32	-0.18	0.13	-12.27	24.01
NGC 2168	91.046030	23.637293	6946.16	96.00	4.13	0.33	-0.06	0.11	-10.92	24.59
NGC 2168	91.254543	23.660307	7734.69	79.52	3.98	0.29	-0.11	0.13	-8.17	22.65
NGC 2168	90.886089	23.352570	5718.02	121.32	4.43	0.49	0.21	0.13	-9.04	23.69
NGC 2168	93.467169	24.366096	6353.94	138.25	4.25	0.42	-0.21	0.15	-8.07	22.51
NGC 2168	91.971884	23.722938	5826.07	124.02	4.37	0.50	0.09	0.13	-5.50	17.68
NGC 2168	92.124069	23.657241	6381.03	139.78	4.27	0.42	-0.08	0.14	-9.76	24.27
NGC 2168	92.246890	24.036071	7318.54	71.29	4.05	0.32	-0.10	0.09	-4.43	15.28
NGC 2168	92.172151	24.051577	7274.35	115.40	4.00	0.36	0.24	0.11	-9.04	23.69
NGC 2168	93.120094	23.623859	7400.90	68.40	4.14	0.24	-0.26	0.14	-16.94	15.96
NGC 2168	92.428795	24.312327	6960.43	128.49	4.18	0.32	-0.12	0.14	-5.78	18.29
NGC 2168	92.271743	24.325278	6801.05	113.12	4.23	0.33	-0.07	0.12	-5.39	17.44

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{km s}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2168	92.402918	24.372209	6607.73	148.67	4.17	0.42	-0.18	0.18	-12.32	23.97
NGC 2168	92.128121	24.111690	6895.78	148.94	4.19	0.36	-0.10	0.17	-12.05	24.18
NGC 2168	92.139950	24.239974	7295.35	145.79	4.09	0.36	-0.14	0.17	-9.29	23.92
NGC 2168	92.222527	24.384575	7385.94	112.38	3.98	0.36	0.29	0.11	-7.75	22.03
NGC 2168	92.869886	24.396414	6043.49	123.96	3.95	0.56	-0.02	0.13	-7.91	22.27
NGC 2168	92.291979	23.658622	5791.58	136.68	4.46	0.52	-0.26	0.17	-5.35	17.35
NGC 2168	92.308869	23.600580	6792.89	115.07	4.24	0.35	-0.01	0.12	-7.64	21.85
NGC 2168	91.531524	24.829042	7131.93	105.30	3.88	0.40	0.04	0.13	-10.57	24.58
NGC 2168	91.429181	24.870560	7013.08	102.22	4.07	0.34	-0.06	0.12	-9.75	24.26
NGC 2168	91.591992	24.860195	6452.26	156.58	4.19	0.40	-0.33	0.17	-5.49	17.66
NGC 2168	91.381012	24.803753	7730.30	102.26	4.12	0.30	-0.24	0.18	-15.70	18.69
NGC 2168	91.846532	24.695617	8123.93	129.45	4.11	0.41	-0.18	0.17	-5.97	18.69
NGC 2168	92.193371	24.588161	6218.12	157.66	4.28	0.47	-0.16	0.17	-9.29	23.92
NGC 2168	91.583001	24.166237	6323.73	127.23	4.31	0.41	-0.29	0.15	-13.71	22.34
NGC 2168	92.290375	24.499864	6221.24	152.96	4.18	0.49	-0.07	0.15	-8.37	22.92
NGC 2168	92.272202	24.426482	7016.32	126.55	4.11	0.34	-0.13	0.15	-9.58	24.15
NGC 2168	92.341255	24.436491	7196.38	120.07	4.06	0.43	-0.07	0.17	-13.57	22.55
NGC 2168	92.321587	24.636261	6597.02	139.72	4.27	0.40	-0.08	0.15	-9.46	24.06
NGC 2168	92.204603	24.810202	6649.51	136.37	4.17	0.38	-0.15	0.15	-6.16	19.09
NGC 2168	91.779328	24.301270	6463.52	136.46	4.22	0.42	-0.09	0.14	-7.64	21.85
NGC 2168	92.204654	24.425777	8016.64	71.33	3.96	0.29	-0.11	0.10	-9.37	23.99
NGC 2168	91.311217	24.619601	6244.19	163.94	4.20	0.48	-0.26	0.18	-11.09	24.58
NGC 2168	90.280833	24.039692	5380.39	98.06	4.52	0.43	0.04	0.12	-8.69	23.32
NGC 2168	90.693852	23.937659	7112.07	304.95	4.26	0.39	-0.22	0.34	-10.55	24.57
NGC 2168	90.435705	23.649820	6069.89	245.72	4.24	0.53	-0.15	0.24	-17.27	15.21
NGC 2168	90.392516	23.886550	6805.97	118.17	4.17	0.33	-0.19	0.13	-10.62	24.58
NGC 2168	90.811677	23.895951	6247.57	334.21	4.51	0.41	0.17	0.28	-6.56	19.90
NGC 2168	91.107519	22.874020	6687.35	128.93	4.17	0.36	-0.30	0.15	-12.33	23.96
NGC 2168	90.548813	23.541049	6172.25	150.22	4.22	0.49	-0.22	0.17	-8.50	23.09
NGC 2168	90.622365	23.226826	5791.66	140.09	4.50	0.49	-0.04	0.16	-10.59	24.58
NGC 2168	90.753666	23.105201	5537.93	123.32	4.57	0.46	0.08	0.14	-16.79	16.30
NGC 2168	90.357364	24.141379	5370.42	166.46	4.69	0.41	0.12	0.19	-11.27	24.54
NGC 2168	90.260170	23.815404	6053.55	235.13	3.89	0.56	-0.44	0.24	-5.21	17.04
NGC 2168	91.124034	23.671609	4930.84	179.71	3.20	0.54	-0.08	0.23	-5.33	17.31
NGC 2168	90.621762	23.367658	4689.61	184.86	4.11	0.39	-0.50	0.27	-8.73	23.36
NGC 2168	90.925538	23.445893	5811.91	214.01	4.04	0.55	-0.28	0.23	-14.24	21.50
NGC 2168	91.926423	23.201123	5152.87	172.47	4.07	0.60	-0.10	0.22	-17.39	14.94
NGC 2168	91.615852	23.106250	4934.67	74.44	4.76	0.29	-0.09	0.11	-16.45	17.06
NGC 2168	91.763508	22.720566	5785.61	190.10	4.01	0.75	-0.17	0.22	-14.41	21.20
NGC 2168	91.844535	23.541700	4640.26	68.71	4.58	0.27	-0.42	0.11	-16.61	16.70
NGC 2168	92.581091	23.300337	5117.65	104.83	4.70	0.35	-0.00	0.14	-6.46	19.70
NGC 2168	92.901125	23.239041	4570.70	69.21	4.66	0.23	0.15	0.09	-7.09	20.90
NGC 2168	92.960470	22.522335	6833.91	125.36	4.05	0.34	-0.13	0.13	-10.66	24.59
NGC 2168	92.639396	22.640139	5181.83	86.38	4.71	0.34	0.14	0.11	-10.71	24.59
NGC 2168	93.807114	23.194530	5706.95	163.01	4.66	0.45	0.07	0.18	-4.44	15.31
NGC 2168	93.811009	23.900928	8226.47	134.29	4.00	0.32	0.30	0.12	-15.33	19.45
NGC 2168	93.471926	23.852789	6332.80	145.36	4.27	0.43	-0.05	0.14	-8.41	22.97
NGC 2168	93.525108	23.522435	6350.50	189.80	4.14	0.47	-0.12	0.18	-16.75	16.39
NGC 2168	93.765261	23.367015	6749.36	167.62	4.17	0.38	-0.10	0.18	-6.09	18.94
NGC 2168	94.032560	23.242484	6229.43	176.34	4.25	0.46	-0.36	0.20	-12.84	23.47
NGC 2168	91.339529	22.877100	5825.26	164.83	4.44	0.55	-0.06	0.19	-12.64	23.68
NGC 2168	93.849104	25.282771	5982.62	160.00	4.33	0.51	-0.23	0.18	-9.85	24.32
NGC 2168	92.677241	24.709063	6289.75	183.82	4.25	0.46	-0.20	0.19	-7.57	21.74
NGC 2168	92.999194	24.709841	5748.09	157.45	4.37	0.53	-0.15	0.18	-6.18	19.13
NGC 2168	92.919891	24.586350	5383.73	166.96	3.80	0.50	0.32	0.17	-12.61	23.71
NGC 2168	93.080845	24.858267	6111.42	150.93	4.29	0.49	-0.15	0.16	-7.31	21.29
NGC 2168	93.238742	25.345206	6071.04	158.50	4.12	0.54	0.13	0.14	-5.87	18.48
NGC 2168	91.167704	23.987086	7238.99	148.72	3.92	0.44	-0.06	0.20	-8.84	23.49
NGC 2168	91.102065	23.362920	7899.96	79.89	3.95	0.29	-0.28	0.13	-5.87	18.48



(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2168	91.138614	23.474319	6225.02	172.49	4.05	0.50	-0.64	0.22	-13.26	22.97
NGC 2168	90.738581	23.301280	5574.82	147.40	4.66	0.44	0.08	0.17	-8.86	23.51
NGC 2168	92.905413	23.889846	5919.69	131.27	4.30	0.52	-0.12	0.14	-13.77	22.25
NGC 2168	92.487601	24.134174	5588.25	176.36	4.57	0.49	-0.17	0.21	-13.51	22.63
NGC 2168	93.445413	23.982736	7074.96	134.81	4.08	0.37	-0.16	0.17	-10.63	24.58
NGC 2168	92.312992	24.184283	5693.91	142.24	4.42	0.50	-0.08	0.16	-13.52	22.62
NGC 2168	92.349589	24.388638	6038.97	137.91	4.36	0.49	-0.12	0.15	-11.27	24.54
NGC 2168	92.998921	23.550038	6162.62	162.14	4.15	0.50	-0.13	0.16	-10.64	24.58
NGC 2168	92.857354	23.620270	5563.90	178.57	4.67	0.45	0.13	0.19	-4.41	15.24
NGC 2168	92.716675	24.319710	7655.04	75.90	3.93	0.31	-0.17	0.14	-7.46	21.55
NGC 2168	92.631225	24.186426	6136.95	234.94	4.52	0.43	-0.10	0.24	-16.42	17.12
NGC 2168	91.561150	24.762510	5117.98	131.51	4.71	0.34	0.30	0.15	-8.34	22.88
NGC 2168	91.751978	24.705338	5881.05	144.03	3.89	0.58	0.05	0.14	-6.56	19.90
NGC 2168	91.867609	24.750338	5308.56	114.14	4.65	0.40	0.02	0.14	-14.94	20.22
NGC 2168	92.578053	24.588124	5733.48	124.64	4.59	0.46	0.04	0.14	-9.61	24.17
NGC 2168	92.228279	24.711478	5471.49	178.72	4.32	0.52	-0.07	0.20	-10.86	24.60
NGC 2168	92.050675	24.522052	5177.29	122.89	4.60	0.40	-0.16	0.17	-9.11	23.76
NGC 2168	91.400940	24.385305	4505.31	81.41	4.57	0.22	-0.17	0.12	-10.12	24.45
NGC 2168	91.194322	24.689372	5537.56	213.73	3.38	0.75	-0.34	0.26	-14.25	21.48
NGC 2168	92.179733	25.054073	6482.16	164.94	4.14	0.41	-0.25	0.17	-8.40	22.96
NGC 2168	92.073828	25.082235	5333.38	130.05	4.68	0.40	0.06	0.16	-12.81	23.51
NGC 2168	91.608886	23.352538	4139.88	55.92	4.37	0.22	-0.17	0.12	-4.75	16.01
NGC 2168	92.034421	22.966495	5479.51	151.61	4.57	0.45	0.15	0.17	-15.54	19.02
NGC 2168	92.217790	22.984209	5874.12	189.66	4.31	0.52	-0.01	0.18	-6.91	20.57
NGC 2168	92.568243	23.313916	4485.32	66.92	4.71	0.20	-0.12	0.11	-4.38	15.17
NGC 2168	94.064806	24.111238	5233.14	205.12	3.44	0.68	-0.41	0.25	-6.87	20.50
NGC 2168	94.113010	24.607169	7130.50	169.19	4.04	0.37	-0.21	0.20	-8.27	22.79
NGC 2168	94.019785	24.992191	5860.91	205.53	4.45	0.51	0.26	0.19	-11.67	24.40
NGC 2168	91.209711	23.604987	5490.01	217.11	4.18	0.63	-0.61	0.28	-5.50	17.68
NGC 2168	93.237618	23.594501	6834.56	201.66	4.15	0.34	-0.37	0.23	-6.31	19.40
NGC 2168	92.427444	24.347769	5071.60	142.08	4.58	0.37	-0.06	0.18	-10.17	24.47
NGC 2168	92.569606	24.340346	4951.98	118.42	4.58	0.34	-0.06	0.16	-13.61	22.49
NGC 2168	92.439893	23.672061	5205.78	140.28	3.87	0.52	0.05	0.17	-16.86	16.14
NGC 2168	94.147937	23.434467	6381.30	122.07	4.20	0.43	-0.02	0.12	-9.27	23.91
NGC 2168	94.238255	24.664132	5368.67	149.45	3.50	0.65	-0.20	0.18	-5.84	18.42
NGC 2168	94.255994	24.593245	6706.05	169.56	4.15	0.38	-0.17	0.18	-5.00	16.57
NGC 2168	93.803591	24.377606	5836.34	178.19	4.24	0.56	-0.21	0.20	-6.22	19.21
NGC 2168	94.179537	23.934876	7088.29	111.73	3.89	0.35	0.07	0.12	-13.90	22.05
NGC 2168	93.992799	23.648652	6546.22	182.28	4.26	0.39	-0.01	0.17	-10.19	24.48
NGC 2168	93.976143	24.556563	5295.27	142.33	4.66	0.42	-0.16	0.19	-16.47	17.01
NGC 2168	94.317295	24.041036	8345.20	127.32	3.92	0.39	-0.43	0.17	-15.66	18.77
NGC 2168	94.185430	24.099312	8092.36	145.43	3.88	0.49	-0.36	0.22	-7.27	21.23
NGC 2168	93.881104	24.153429	8220.08	102.80	3.80	0.36	-0.28	0.14	-4.87	16.28
NGC 2168	90.901049	23.296023	5248.45	85.56	4.68	0.36	0.07	0.11	-10.42	24.55
NGC 2168	90.734319	23.171002	5751.48	164.50	4.40	0.52	-0.04	0.18	-10.11	24.45
NGC 2168	90.753666	23.105201	5474.00	112.91	4.48	0.45	0.03	0.13	-14.05	21.81
NGC 2168	90.392516	23.886550	6766.03	147.64	4.13	0.35	-0.23	0.17	-12.45	23.86
NGC 2168	90.443449	23.752390	7129.95	211.06	4.03	0.43	-0.15	0.28	-7.76	22.04
NGC 2168	90.470108	24.050066	6957.93	236.50	4.08	0.37	0.02	0.23	-5.35	17.35
NGC 2168	91.079898	24.035402	5556.48	351.63	3.85	0.85	-0.78	0.45	-8.81	23.45
NGC 2168	90.565857	23.639568	5020.58	73.64	4.64	0.30	0.20	0.10	-15.18	19.75
NGC 2168	90.693852	23.937659	7943.35	234.15	4.12	0.55	0.16	0.33	-14.18	21.60
NGC 2168	91.638975	23.995450	4697.24	119.00	4.53	0.30	-0.11	0.17	-10.72	24.59
NGC 2168	91.234746	24.059040	6086.85	166.39	4.38	0.48	-0.21	0.18	-12.15	24.11
NGC 2168	91.528656	23.943640	5016.81	138.83	3.91	0.51	-0.05	0.18	-9.75	24.26
NGC 2168	91.567771	24.028548	6426.52	133.57	4.30	0.40	-0.16	0.14	-16.78	16.32
NGC 2168	91.924636	23.823541	6011.32	204.77	3.92	0.61	-0.35	0.23	-4.38	15.17
NGC 2168	91.711428	23.153911	6081.34	155.38	4.21	0.51	-0.11	0.16	-4.95	16.46
NGC 2168	91.964791	23.462483	6439.16	127.85	4.23	0.41	-0.05	0.13	-14.29	21.41

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2168	91.694965	23.053630	6959.15	113.96	4.19	0.31	-0.49	0.16	-17.32	15.09
NGC 2168	91.494895	23.554532	5671.32	127.95	3.67	0.65	-0.17	0.15	-13.23	23.01
NGC 2168	91.394395	23.459486	4515.44	57.19	4.69	0.20	-0.01	0.09	-7.06	20.85
NGC 2168	91.107519	22.874020	6719.40	138.02	4.18	0.35	-0.25	0.16	-7.86	22.20
NGC 2168	91.192654	22.910695	6396.76	152.40	4.33	0.42	0.09	0.14	-5.23	17.08
NGC 2168	91.886718	22.762372	6372.14	126.57	4.19	0.44	0.12	0.12	-16.94	15.96
NGC 2168	93.324544	23.149640	5932.84	164.00	4.44	0.50	-0.08	0.17	-16.70	16.50
NGC 2168	92.833727	23.148223	5998.68	224.01	4.14	0.55	-0.13	0.22	-5.89	18.52
NGC 2168	92.778373	23.452747	6606.53	124.47	4.16	0.37	-0.13	0.13	-10.06	24.42
NGC 2168	93.113441	23.558530	6154.65	197.38	3.79	0.56	-0.17	0.19	-6.98	20.70
NGC 2168	92.650110	22.684790	8057.16	109.72	3.82	0.38	-0.41	0.18	-12.08	24.16
NGC 2168	92.227468	22.942303	6167.63	191.14	4.08	0.49	-0.42	0.21	-15.65	18.79
NGC 2168	92.257858	22.477677	6440.53	156.17	4.19	0.41	-0.20	0.16	-15.58	18.94
NGC 2168	92.778373	23.937692	5846.99	142.21	4.50	0.49	-0.06	0.16	-5.95	18.65
NGC 2168	92.785241	24.301171	5030.33	130.91	4.01	0.47	-0.19	0.17	-12.84	23.47
NGC 2168	92.724311	24.182616	5913.88	119.87	4.37	0.50	0.05	0.12	-15.28	19.55
NGC 2168	92.690073	24.903829	5564.14	160.25	4.52	0.48	0.02	0.18	-15.66	18.77
NGC 2168	92.677504	24.772617	5880.14	162.08	4.00	0.60	-0.26	0.18	-6.18	19.13
NGC 2168	92.164107	24.852242	5644.10	147.65	4.41	0.51	-0.06	0.17	-13.13	23.14
NGC 2168	92.315396	24.513493	5724.54	153.79	4.29	0.55	-0.08	0.17	-10.59	24.58
NGC 2168	92.866340	23.940678	6098.30	157.05	4.29	0.49	0.10	0.14	-10.72	24.59
NGC 2168	92.968514	23.919081	6298.11	147.43	4.17	0.45	-0.07	0.14	-4.88	16.30
NGC 2168	92.345440	24.257299	5293.11	147.51	4.54	0.43	0.06	0.18	-12.94	23.36
NGC 2168	92.246962	24.253036	6481.53	169.37	4.12	0.43	-0.17	0.17	-17.10	15.59
NGC 2168	92.321954	24.353183	6057.01	139.55	4.25	0.52	-0.06	0.14	-12.59	23.73
NGC 2168	92.380897	24.463773	5712.12	191.09	4.35	0.56	-0.06	0.21	-12.46	23.85
NGC 2168	92.974324	24.188650	5987.99	139.96	3.57	0.66	-0.39	0.16	-16.99	15.84
NGC 2168	92.281129	24.136445	4936.84	146.24	4.10	0.45	-0.21	0.20	-13.29	22.93
NGC 2168	92.669435	24.144723	5745.19	181.11	4.51	0.51	0.09	0.19	-17.05	15.71
NGC 2168	92.845388	23.762912	6382.32	167.05	4.29	0.42	-0.02	0.16	-13.76	22.27
NGC 2168	92.463846	26.009407	6031.67	145.82	4.42	0.47	-0.21	0.16	-5.68	18.07
NGC 2168	92.014598	25.316874	6433.06	130.54	4.33	0.41	-0.07	0.14	-11.86	24.30
NGC 2168	91.377108	25.136210	6061.48	169.89	4.25	0.50	-0.21	0.18	-4.79	16.10
NGC 2168	91.380535	25.212650	7132.33	118.27	3.93	0.40	-0.14	0.15	-8.05	22.48
NGC 2168	92.018544	25.795138	5890.97	176.93	3.79	0.62	-0.14	0.18	-13.99	21.91
NGC 2168	91.052999	25.879779	6236.46	168.41	4.10	0.47	-0.49	0.19	-15.54	19.02
NGC 2168	90.985576	25.742591	5118.28	130.58	3.40	0.59	-0.31	0.17	-6.53	19.84
NGC 2168	93.248953	25.307446	6597.50	143.18	4.13	0.38	-0.26	0.16	-4.45	15.33
NGC 2168	93.390902	25.024697	6811.97	138.63	4.11	0.34	-0.23	0.15	-7.92	22.29
NGC 2168	93.141001	25.693371	5864.26	335.72	4.45	0.56	-0.13	0.36	-16.94	15.96
NGC 2168	93.036766	25.323962	6302.84	139.52	4.28	0.45	-0.06	0.14	-5.86	18.46
NGC 2168	92.748451	25.319479	6188.75	274.47	4.24	0.50	-0.04	0.26	-4.37	15.15
NGC 2168	93.534895	25.115867	5469.96	131.89	4.13	0.56	-0.17	0.16	-14.04	21.83
NGC 2168	92.547233	25.430571	5459.25	136.78	4.46	0.47	-0.05	0.16	-6.00	18.75
NGC 2168	92.390935	25.202687	5391.26	190.12	3.59	0.65	-0.04	0.22	-12.30	23.99
NGC 2168	93.421649	25.338468	6483.71	176.52	4.02	0.43	-0.21	0.18	-15.18	19.75
NGC 2168	93.474501	25.500240	6114.06	158.60	4.01	0.55	0.04	0.15	-5.71	18.14
NGC 2168	93.325751	25.414931	5796.31	192.20	4.27	0.55	0.04	0.19	-16.66	16.59
NGC 2168	94.186375	24.300154	5630.05	188.64	4.05	0.63	-0.18	0.21	-7.42	21.48
NGC 2168	93.901812	23.931196	5886.73	393.68	3.43	0.74	-0.03	0.36	-11.60	24.43
NGC 2168	94.011020	23.876058	5581.56	172.60	4.46	0.49	0.15	0.18	-5.05	16.68
NGC 2168	93.937849	23.761930	5755.77	240.21	4.48	0.48	-0.33	0.29	-9.53	24.11
NGC 2168	93.406281	23.748152	5851.22	251.30	3.64	0.68	0.05	0.24	-14.48	21.08
NGC 2168	93.588038	23.614175	6824.43	125.75	4.11	0.36	-0.03	0.13	-14.20	21.56
NGC 2168	93.682165	23.819721	6558.63	170.49	4.24	0.38	-0.19	0.18	-9.90	24.35
NGC 2168	93.541625	24.345178	6374.69	315.87	4.30	0.45	-0.09	0.30	-9.82	24.30
NGC 2168	93.647358	23.854743	5990.71	182.88	3.90	0.60	-0.11	0.18	-5.65	18.01
NGC 2168	93.500492	23.937737	7975.51	88.43	3.79	0.31	0.29	0.10	-14.35	21.31
NGC 2168	93.899358	23.901188	6346.43	142.56	4.21	0.45	-0.18	0.15	-4.39	15.19

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2168	93.413073	23.795009	5977.45	196.00	4.51	0.50	0.04	0.20	-6.48	19.74
NGC 2168	91.649729	24.632507	7082.27	165.87	4.02	0.31	-0.22	0.18	-4.76	16.03
NGC 2168	91.837650	25.030908	4592.91	123.51	4.67	0.25	-0.03	0.17	-8.67	23.29
NGC 2168	90.586891	24.559527	5857.76	137.24	4.12	0.55	0.20	0.13	-14.19	21.58
NGC 2168	91.131951	24.676985	4738.51	92.01	4.04	0.37	-0.38	0.14	-8.11	22.57
NGC 2168	91.910625	24.330380	6125.10	141.74	4.35	0.47	-0.08	0.15	-12.55	23.77
NGC 2168	91.824014	24.738524	4979.92	131.20	4.68	0.33	0.12	0.17	-5.62	17.94
NGC 2168	91.989154	24.846088	5488.33	151.62	4.47	0.49	-0.12	0.18	-14.75	20.59
NGC 2168	91.203613	25.075599	5607.82	162.30	3.91	0.61	0.01	0.17	-7.10	20.92
NGC 2168	91.484869	24.930912	5521.64	216.17	3.72	0.75	-0.46	0.26	-17.18	15.41
NGC 2168	91.049655	25.557543	5356.38	172.06	3.60	0.62	-0.19	0.21	-9.92	24.36
NGC 2168	90.760249	25.601272	5502.77	195.58	3.69	0.60	-0.04	0.21	-5.98	18.71
NGC 2168	91.102065	23.362920	7914.03	93.84	3.90	0.29	-0.26	0.14	-9.04	23.69
NGC 2168	91.637225	23.993000	6667.67	175.49	4.15	0.38	-0.24	0.19	-15.80	18.47
NGC 2168	91.615852	23.106250	4970.61	163.73	4.81	0.34	-0.11	0.22	-8.71	23.34
NGC 2168	91.828178	23.673243	4790.90	159.17	4.53	0.34	-0.21	0.23	-8.57	23.18
NGC 2168	91.341863	23.314354	6213.66	274.71	4.22	0.54	-0.18	0.27	-9.41	24.02
NGC 2168	90.584675	23.454513	6677.31	285.98	4.05	0.43	0.00	0.26	-4.75	16.01
NGC 2168	91.010498	22.987185	6388.15	166.04	4.17	0.41	-0.18	0.16	-8.57	23.18
NGC 2168	90.897612	25.681272	5827.73	201.71	4.59	0.47	0.20	0.20	-6.10	18.96
NGC 2168	91.039261	25.655743	7256.99	83.98	4.08	0.28	-0.34	0.19	-10.86	24.60
NGC 2168	91.055016	24.752047	5525.11	174.00	3.72	0.65	-0.12	0.20	-16.04	17.96
NGC 2168	91.194322	24.689372	5600.00	219.51	3.61	0.71	-0.32	0.25	-7.36	21.38
NGC 2168	90.967376	24.519909	5963.75	239.65	4.27	0.55	0.01	0.23	-5.47	17.61
NGC 2099	88.947287	32.485617	7882.63	95.46	3.65	0.32	0.01	0.13	4.06	14.89
NGC 2099	88.331945	33.405688	6387.66	181.76	4.22	0.42	-0.25	0.18	2.62	16.41
NGC 2099	88.022645	32.516964	8181.68	176.22	3.75	0.54	-0.43	0.29	5.80	11.42
NGC 2099	87.876117	32.708928	7284.20	260.00	4.13	0.37	0.28	0.21	3.96	15.04
NGC 2099	87.167237	32.683406	6968.97	153.80	4.09	0.33	-0.32	0.18	-1.13	12.58
NGC 2099	88.301007	33.107272	6321.30	201.98	4.38	0.43	-0.07	0.19	1.26	16.25
NGC 2099	88.045990	33.090349	6889.57	226.56	4.29	0.34	-0.09	0.22	-1.52	11.73
NGC 2099	88.042058	32.973713	6801.70	181.25	4.13	0.37	-0.19	0.21	4.42	14.28
NGC 2099	89.079162	32.688987	6245.20	200.82	3.95	0.54	-0.08	0.19	-0.36	14.13
NGC 2099	88.822412	32.681583	8132.33	227.31	4.02	0.44	-0.22	0.29	1.55	16.42
NGC 2099	88.408250	32.833511	7264.02	153.73	3.74	0.39	0.27	0.14	3.32	15.87
NGC 2099	88.541330	33.114700	5145.52	125.42	3.69	0.51	-0.10	0.16	4.53	14.08
NGC 2099	88.459747	32.731400	6794.88	90.46	4.11	0.35	-0.05	0.10	0.55	15.55
NGC 2099	88.644012	32.426092	7401.97	202.88	4.07	0.40	0.25	0.18	3.53	15.63
NGC 2099	88.878392	32.160627	6129.73	222.80	4.24	0.49	-0.25	0.23	-0.82	13.23
NGC 2099	88.889923	32.273117	6213.15	122.07	4.36	0.43	-0.07	0.13	0.48	15.46
NGC 2099	87.941171	32.028166	5725.33	193.71	4.23	0.50	-0.74	0.30	3.26	15.93
NGC 2099	88.444709	32.220275	8280.29	310.07	3.82	0.74	-0.17	0.32	5.43	12.25
NGC 2099	88.594486	32.352968	8037.86	135.46	3.81	0.49	-0.34	0.24	1.32	16.29
NGC 2099	88.270894	33.025729	5766.61	208.91	4.52	0.49	-0.03	0.22	5.73	11.58
NGC 2099	87.305227	33.140303	6823.60	226.66	4.13	0.35	-0.35	0.25	-0.60	13.67
NGC 2099	88.537378	31.706395	5625.93	160.49	4.44	0.49	0.24	0.16	3.01	16.16
NGC 2099	88.496414	32.916742	5669.45	159.93	4.41	0.51	-0.14	0.18	-1.23	12.37
NGC 2099	87.901413	32.102694	7449.97	220.20	4.01	0.41	0.13	0.21	5.15	12.85
NGC 2099	88.077153	32.666130	7267.97	183.98	4.03	0.35	-0.12	0.20	6.31	10.25
NGC 2099	87.806249	32.465110	7078.37	189.34	4.11	0.35	0.03	0.19	4.03	14.94
NGC 2099	87.727658	32.584512	7121.71	180.69	4.00	0.36	0.12	0.18	5.26	12.62
NGC 2099	87.593707	32.352967	5830.81	267.91	4.19	0.56	-0.17	0.27	5.54	12.01
NGC 2099	88.523917	32.271827	7764.89	279.03	4.13	0.36	-0.22	0.28	3.71	15.40
NGC 2099	87.550964	32.272483	5801.59	420.21	3.23	0.88	-0.53	0.48	2.45	16.48
NGC 2099	88.481696	32.430027	6853.18	322.69	4.20	0.37	-0.09	0.32	-0.39	14.07
NGC 2099	88.096656	32.586605	6111.76	231.73	4.33	0.50	-0.03	0.22	5.27	12.60
NGC 2099	88.198069	32.406829	7475.47	226.98	3.75	0.46	0.52	0.19	0.86	15.91
NGC 2099	88.187577	32.798827	7446.33	180.84	3.85	0.42	0.49	0.15	1.93	16.53
NGC 2099	87.951919	33.123347	5412.47	170.62	4.36	0.46	0.47	0.17	1.17	16.19

(Continued.)

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NGC 2099	88.174878	33.368715	8355.40	263.97	4.19	0.42	-0.16	0.31	1.85	16.52
NGC 2099	87.741297	33.225817	6579.85	239.95	4.05	0.48	-0.01	0.24	4.75	13.67
NGC 2099	87.374475	32.312141	6550.28	204.62	4.15	0.43	-0.19	0.21	2.94	16.21
NGC 2099	88.287775	33.178968	6423.52	302.80	4.32	0.45	-0.21	0.29	0.56	15.56
NGC 2099	88.100123	32.271877	6875.15	139.11	4.16	0.35	-0.17	0.16	5.25	12.64
NGC 2099	88.098624	32.189139	5725.71	208.99	4.26	0.59	-0.19	0.23	6.24	10.41
NGC 2099	88.592357	32.710971	5628.56	205.80	4.16	0.56	0.10	0.20	6.15	10.62
NGC 2099	88.394162	32.688452	5657.60	148.10	4.40	0.53	-0.07	0.17	-1.89	10.88
NGC 2099	88.219064	32.709149	5643.67	179.93	3.76	0.70	-0.21	0.20	-1.11	12.63
NGC 2099	88.261904	32.642054	5640.89	212.32	4.03	0.61	0.17	0.21	-1.71	11.30
NGC 2099	87.946788	32.327609	5273.81	165.27	4.20	0.52	-0.03	0.20	0.82	15.86
NGC 2099	87.959815	32.429468	5925.58	225.05	4.17	0.62	-0.09	0.23	3.77	15.32
NGC 2099	87.824157	32.052104	6535.25	211.96	4.10	0.49	-0.23	0.24	5.22	12.70
NGC 2099	87.924249	31.919369	4704.20	138.52	4.51	0.30	-0.17	0.19	4.72	13.72
NGC 2099	87.677371	32.078170	6129.98	276.61	4.31	0.39	-0.84	0.38	1.51	16.40
NGC 2099	87.150200	32.824096	5698.83	172.88	4.28	0.55	0.09	0.18	1.45	16.37
NGC 2099	87.427497	33.004709	6480.23	167.04	4.21	0.44	0.07	0.16	3.35	15.84
NGC 2099	87.394796	33.239369	7001.76	155.69	4.16	0.34	-0.27	0.19	-1.16	12.52
NGC 2099	87.029032	32.475284	6799.10	138.49	4.10	0.35	-0.13	0.15	1.52	16.41
NGC 2099	86.976269	32.665492	5700.44	206.29	4.38	0.55	-0.36	0.25	-1.02	12.82
NGC 2099	88.069080	33.503351	5676.47	203.32	4.26	0.62	-0.32	0.25	1.99	16.54
NGC 2099	87.117325	32.643039	5348.20	124.22	4.38	0.47	-0.15	0.16	1.42	16.36
NGC 2099	87.999774	32.329985	6654.03	202.59	4.23	0.39	-0.06	0.20	3.38	15.81
NGC 2099	87.879014	32.293074	8318.90	235.99	3.57	0.75	-0.20	0.27	0.98	16.02
NGC 2099	88.164077	32.340684	6569.70	244.27	4.19	0.42	-0.02	0.22	4.86	13.45
NGC 2099	87.803725	31.680449	5842.28	155.18	4.32	0.54	-0.18	0.17	0.59	15.60
NGC 2099	88.238835	32.623684	7208.76	166.38	4.07	0.38	-0.09	0.20	-1.12	12.61
NGC 2099	87.939731	32.498580	6823.95	148.47	4.18	0.38	-0.00	0.16	-0.71	13.46
NGC 2099	88.121873	32.656605	5627.90	129.53	4.52	0.47	0.14	0.14	-1.67	11.39
NGC 2099	88.060874	32.630768	6733.41	171.62	4.08	0.39	-0.02	0.17	1.73	16.49
NGC 2099	88.925740	32.811967	6036.66	188.04	4.07	0.73	-0.23	0.23	2.07	16.54
NGC 2099	88.523535	32.505788	5962.59	236.42	4.33	0.54	-0.08	0.24	4.07	14.87
NGC 2099	87.485807	33.007016	6122.14	390.04	4.32	0.54	0.08	0.35	4.62	13.92
NGC 2099	87.328016	32.836902	7643.96	237.45	4.13	0.34	-0.35	0.25	-1.76	11.18
NGC 2099	87.303227	32.771714	5811.75	209.94	4.28	0.54	-0.02	0.21	4.47	14.19
NGC 2099	87.340826	32.231541	6412.52	221.64	4.17	0.47	-0.13	0.22	-2.00	10.63
NGC 2099	87.696015	32.695455	5075.51	149.87	3.26	0.62	-0.31	0.20	0.64	15.66
NGC 2099	88.315197	32.411757	5069.68	169.19	3.29	0.64	-0.34	0.23	0.02	14.78
NGC 2099	88.020993	31.938735	5326.01	244.99	3.99	0.61	-0.17	0.29	1.56	16.43
NGC 2099	87.560114	32.195188	6118.97	237.58	4.06	0.54	-0.46	0.25	-0.09	14.60
NGC 2099	88.263328	32.682468	5053.06	175.62	3.31	0.62	-0.21	0.23	-1.28	12.26
NGC 2099	88.065304	32.727298	5437.88	154.92	4.49	0.46	0.09	0.17	4.48	14.18
NGC 2099	87.993206	32.498345	5553.36	208.40	4.52	0.49	0.05	0.22	3.45	15.73
NGC 2099	88.019759	32.621234	5339.89	203.64	4.28	0.52	0.05	0.22	4.39	14.34
NGC 2099	88.880292	32.252157	5115.28	115.74	4.42	0.35	0.43	0.13	0.53	15.53
NGC 2099	88.809773	33.287599	6795.71	195.95	4.19	0.39	-0.37	0.27	5.46	12.18
NGC 2099	88.727651	33.177751	5223.07	194.82	4.41	0.47	-0.24	0.24	2.85	16.28
NGC 2099	88.676316	32.593362	4302.74	77.93	4.82	0.19	0.00	0.13	-2.01	10.61
NGC 2099	88.003089	33.269425	6918.73	197.53	4.18	0.33	-0.39	0.23	0.96	16.01
NGC 2099	87.229369	32.767064	5354.79	242.62	4.42	0.45	-0.09	0.28	0.65	15.67
NGC 2099	87.692499	32.987496	5212.68	149.02	4.72	0.37	0.06	0.18	5.86	11.29
NGC 2099	88.175912	32.844800	5703.31	276.79	4.15	0.64	-0.55	0.32	1.53	16.41
NGC 2099	88.191986	32.531478	5219.39	233.28	4.16	0.52	-0.01	0.27	-1.51	11.75
NGC 2099	87.391832	32.725067	5243.27	192.64	4.54	0.39	-0.08	0.22	3.09	16.09
NGC 2099	87.685096	31.762600	4420.59	105.11	4.54	0.22	-0.30	0.17	0.70	15.73
NGC 2099	88.009899	31.820340	6777.18	260.91	4.25	0.32	-0.33	0.31	2.00	16.54
NGC 2099	87.392308	32.623990	5987.70	314.32	4.13	0.64	-0.40	0.34	-1.09	12.67
NGC 2099	87.674381	32.279473	5466.53	230.83	3.58	1.11	-0.22	0.38	5.38	12.36
NGC 2099	88.249989	32.461860	5007.12	166.33	4.28	0.38	-0.05	0.21	-1.12	12.61

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2099	88.172695	32.204241	4912.95	117.77	4.56	0.34	-0.06	0.15	0.60	15.61
NGC 2099	88.470986	32.853117	6709.71	217.66	4.07	0.39	-0.28	0.23	4.28	14.53
NGC 2099	88.288474	32.554457	4664.49	120.14	4.69	0.27	-0.08	0.16	1.21	16.22
NGC 2099	88.029356	32.627639	5143.50	226.60	4.25	0.58	-0.41	0.31	-0.52	13.83
NGC 2099	87.938120	32.305643	5617.02	221.02	4.49	0.55	-0.42	0.28	0.16	15.01
NGC 2099	87.986366	32.464900	5670.98	193.08	4.58	0.50	0.08	0.20	-1.95	10.75
NGC 2099	87.488223	32.077988	7097.03	196.78	3.98	0.47	-0.15	0.26	0.87	15.92
NGC 2099	87.363288	32.903191	4635.97	154.61	3.77	0.38	-0.29	0.21	-1.34	12.13
NGC 2099	87.512262	33.026849	6562.63	221.47	4.08	0.40	-0.47	0.25	5.32	12.49
NGC 2099	86.952582	32.452226	5928.23	257.74	3.61	0.65	-0.39	0.27	5.12	12.92
NGC 2099	87.517298	33.341306	6574.32	228.19	4.08	0.42	-0.14	0.23	4.28	14.53
NGC 2099	87.879785	33.365612	5345.28	176.43	4.19	0.53	-0.20	0.21	-1.05	12.75
NGC 2099	88.761615	32.784003	5864.43	302.96	4.37	0.57	-0.19	0.32	1.84	16.52
NGC 2099	88.539611	33.289358	6731.13	188.72	4.06	0.41	-0.17	0.19	4.14	14.76
NGC 2099	88.998768	32.698444	6733.95	144.89	4.14	0.36	-0.17	0.16	1.12	16.15
NGC 2099	88.920742	32.461998	5443.06	187.79	3.71	0.67	-0.37	0.23	1.62	16.45
NGC 2099	88.924596	32.205708	5592.03	187.37	4.52	0.50	-0.20	0.22	4.80	13.57
NGC 2099	88.528656	33.343816	6062.44	266.40	3.77	0.65	-0.38	0.28	4.56	14.03
NGC 2099	88.780801	32.638025	4889.06	142.15	4.15	0.38	-0.20	0.19	2.88	16.26
NGC 1746	77.107373	24.011117	4861.03	107.69	4.74	0.30	-0.12	0.15	5.73	8.71
NGC 1746	76.956004	24.744060	4950.07	176.45	2.40	0.72	-0.51	0.26	8.53	8.14
NGC 1746	76.950736	24.611799	5899.72	212.12	4.29	0.54	-0.21	0.22	4.21	8.03
NGC 1746	76.758498	24.300420	6178.75	181.47	4.29	0.48	-0.06	0.18	8.41	8.22
NGC 1746	76.795800	24.330711	5690.94	209.62	4.38	0.54	0.06	0.21	9.39	7.53
NGC 1746	75.498722	23.252455	6436.63	193.85	4.13	0.43	0.03	0.20	1.83	5.96
NGC 1746	75.125881	23.259417	6575.17	201.38	3.99	0.45	-0.20	0.20	8.38	8.23
NGC 1746	75.852113	23.170515	6345.96	206.44	4.02	0.49	-0.13	0.19	2.66	6.77
NGC 1746	75.469862	24.832657	7131.16	185.89	4.08	0.37	-0.28	0.25	8.16	8.35
NGC 1746	75.222664	24.627416	7123.01	136.83	3.90	0.41	0.08	0.15	8.91	7.90
NGC 1746	75.331769	23.240331	6447.91	192.87	3.91	0.46	-0.13	0.19	11.51	5.55
NGC 1746	75.394167	22.967883	7090.03	173.54	4.05	0.36	-0.08	0.19	2.59	6.71
NGC 1746	75.452320	22.999372	6115.81	237.76	4.38	0.48	-0.03	0.22	2.88	6.97
NGC 1746	75.800957	23.214588	7376.97	194.07	3.87	0.41	0.25	0.18	10.24	6.80
NGC 1746	75.550317	23.144291	6117.62	195.68	3.98	0.56	-0.13	0.19	6.00	8.77
NGC 1746	75.469862	24.832657	6939.28	274.42	4.25	0.39	-0.17	0.31	4.55	8.24
NGC 1746	75.999813	24.952076	6449.78	257.75	4.45	0.36	-0.21	0.27	3.96	7.86
NGC 1746	76.654226	24.637319	5070.93	229.21	2.99	0.88	-0.69	0.34	2.21	6.34
NGC 1746	76.541376	24.840493	6596.74	273.96	3.78	0.46	-0.15	0.26	10.09	6.93
NGC 1746	76.080294	24.991442	7646.45	264.95	4.04	0.38	-0.23	0.32	2.78	6.88
NGC 1746	76.563274	24.565525	7106.96	194.70	4.10	0.40	-0.13	0.24	8.92	7.89
NGC 1746	75.109926	24.502932	4923.01	143.09	2.56	0.66	-0.46	0.21	1.89	6.02
NGC 1746	75.503580	24.132898	5028.07	159.61	3.26	0.66	-0.58	0.22	2.77	6.87
NGC 1746	77.442841	23.752747	4925.61	151.34	4.45	0.32	0.33	0.17	2.55	6.67
NGC 1746	76.913441	24.014439	5040.93	147.01	4.75	0.33	0.13	0.18	8.72	8.02
NGC 1746	76.374476	23.946391	4754.68	102.20	4.68	0.26	0.04	0.14	1.91	6.04
NGC 1746	77.149740	23.494518	5461.38	211.06	4.42	0.49	0.14	0.22	4.55	8.24
NGC 1746	76.701841	22.787887	4566.12	82.11	4.95	0.21	0.03	0.12	7.05	8.75
NGC 1746	76.970814	22.988608	4507.53	89.57	4.57	0.23	-0.52	0.15	1.57	5.70
NGC 1746	76.116608	22.675782	5162.96	109.27	4.66	0.35	0.20	0.13	5.77	8.72
NGC 1746	75.985175	22.877424	4713.04	77.59	4.76	0.26	-0.06	0.11	11.09	5.97
NGC 1746	76.711288	23.192591	3913.70	31.45	4.46	0.19	-0.97	0.16	2.43	6.55
NGC 1746	76.179073	23.451185	4633.82	103.27	4.47	0.28	-0.26	0.15	4.69	8.31
NGC 1746	76.110854	23.774920	4810.67	123.30	4.53	0.31	-0.19	0.17	2.26	6.39
NGC 1746	75.775497	23.264690	5508.49	171.27	4.31	0.50	-0.13	0.20	7.53	8.62
NGC 1746	76.358404	24.425443	3911.80	33.74	4.66	0.18	-0.64	0.16	8.17	8.35
NGC 1746	76.414338	24.480089	4400.99	66.33	4.70	0.19	-0.16	0.11	6.81	8.78
NGC 1746	76.327777	24.686613	5670.99	172.04	4.62	0.47	-0.29	0.21	4.60	8.26
NGC 1746	76.913441	24.014439	4958.18	150.64	4.59	0.34	0.07	0.18	2.30	6.43
NGC 1746	76.311453	24.177288	4370.24	61.48	4.67	0.20	0.01	0.10	6.74	8.79

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 1746	75.565797	24.349464	4929.89	165.58	2.87	0.65	-0.43	0.23	4.04	7.91
NGC 1746	75.868931	24.975304	5542.25	191.70	3.87	0.64	-0.30	0.22	1.93	6.06
NGC 1746	77.346243	23.519153	7814.97	66.54	4.02	0.28	0.07	0.10	3.46	7.47
NGC 1746	76.625862	23.477666	4993.09	145.70	3.00	0.65	-0.53	0.21	4.42	8.16
NGC 1746	76.660798	23.297334	6410.48	109.27	3.97	0.44	-0.17	0.12	6.31	8.80
NGC 1746	77.448742	23.825464	5026.22	135.78	2.98	0.63	-0.36	0.19	6.04	8.77
NGC 1746	77.233605	23.803477	6770.11	276.87	3.98	0.38	-0.25	0.27	2.95	7.04
NGC 1746	76.916080	23.961310	5949.25	228.94	3.69	0.68	-0.32	0.24	5.91	8.75
NGC 1746	77.160536	23.704654	5479.72	105.99	4.14	0.45	0.55	0.10	7.94	8.46
NGC 1746	77.210390	23.676403	5682.50	107.25	4.53	0.45	0.11	0.12	8.97	7.85
NGC 1746	77.121367	23.138577	5956.81	146.97	4.28	0.51	0.02	0.15	9.52	7.43
NGC 1746	76.229933	23.126459	5173.62	136.13	3.28	0.68	-0.47	0.19	11.43	5.63
NGC 1746	76.326895	23.197239	6633.17	134.86	4.17	0.38	-0.17	0.15	1.39	5.52
NGC 1746	75.539214	23.596210	6427.74	155.86	4.11	0.42	-0.37	0.18	7.91	8.47
NGC 1746	75.308307	23.615203	5829.60	145.82	4.41	0.49	0.08	0.15	5.84	8.74
NGC 1746	76.151481	23.472531	5022.19	112.77	3.16	0.59	-0.30	0.16	4.46	8.18
NGC 1746	75.368311	22.913112	6538.27	131.35	4.17	0.38	-0.29	0.15	11.55	5.51
NGC 1746	76.240819	23.321020	7487.43	122.31	3.96	0.38	0.24	0.12	2.04	6.17
NGC 1746	76.450332	23.303153	5541.57	153.58	4.59	0.48	-0.33	0.20	6.40	8.80
NGC 1746	76.405592	23.423400	6936.32	118.98	4.15	0.32	-0.31	0.15	11.22	5.84
NGC 1746	76.543643	23.355105	4793.83	82.18	3.58	0.37	0.10	0.11	10.78	6.28
NGC 1746	76.333201	23.617318	6457.43	152.76	4.10	0.41	-0.26	0.16	7.17	8.72
NGC 1746	75.376354	23.207174	5060.48	139.05	3.88	0.47	-0.14	0.18	8.77	7.99
NGC 1746	75.275490	23.444693	6676.04	109.14	3.08	0.44	0.63	0.08	11.30	5.76
NGC 1746	75.114709	23.219071	4850.52	154.02	2.27	0.70	-0.57	0.24	8.91	7.90
NGC 1746	75.302563	23.358005	4644.67	72.87	4.71	0.24	0.00	0.10	5.01	8.47
NGC 1746	75.302070	23.143157	5735.32	286.96	4.57	0.53	0.13	0.26	4.27	8.07
NGC 1746	75.073400	23.170264	6484.05	248.03	4.22	0.42	-0.21	0.25	10.46	6.59
NGC 1746	75.913197	23.136687	6313.48	174.01	4.23	0.44	-0.30	0.19	8.97	7.85
NGC 1746	75.847126	22.989479	5379.30	192.60	4.41	0.46	0.34	0.20	9.38	7.54
NGC 1746	75.489858	22.812199	6951.69	273.33	4.30	0.36	-0.43	0.35	9.26	7.64
NGC 1746	75.595783	22.761258	5571.68	331.68	3.55	0.77	-0.19	0.37	1.44	5.57
NGC 1746	74.956958	23.536583	4948.50	138.08	2.47	0.67	-0.41	0.21	5.02	8.47
NGC 1746	75.331767	24.645990	5786.48	302.38	3.96	0.68	-0.31	0.32	4.84	8.39
NGC 1746	75.790058	24.486401	7375.54	263.33	3.98	0.41	0.14	0.24	2.42	6.54
NGC 1746	76.088246	23.430541	6366.99	164.30	4.20	0.45	0.06	0.15	9.35	7.57
NGC 1746	75.512182	23.355084	6597.04	423.84	4.14	0.47	0.10	0.36	1.86	5.99
NGC 1746	75.347476	23.364655	5753.01	252.30	4.30	0.59	-0.53	0.31	2.38	6.51
NGC 1746	75.243435	24.169264	5594.02	147.56	4.50	0.51	-0.08	0.17	7.59	8.60
NGC 1746	75.301269	24.252740	4456.27	116.75	4.26	0.29	-0.55	0.20	2.47	6.59
NGC 1746	75.546883	23.547922	5010.72	193.98	2.85	0.70	-0.56	0.27	10.31	6.73
NGC 1746	75.407620	23.579467	4799.88	121.26	2.18	0.61	-0.45	0.19	6.64	8.80
NGC 1746	75.308307	23.615203	5803.73	192.90	4.34	0.54	0.09	0.19	4.65	8.29
NGC 1746	75.440486	23.596008	4911.54	157.61	4.43	0.34	0.09	0.20	10.21	6.82
NGC 1746	75.545747	23.650092	6240.79	210.48	4.21	0.50	-0.24	0.22	4.51	8.21
NGC 1039	41.376414	43.173512	6290.78	505.84	4.04	0.56	-0.34	0.48	-11.26	22.10
NGC 1039	41.805918	42.434483	6190.85	333.87	4.35	0.50	-0.13	0.32	-9.87	19.03
NGC 1039	42.237428	43.144829	6371.96	219.62	3.86	0.53	0.16	0.18	-15.13	21.00
NGC 1039	42.311290	43.398083	6578.22	303.79	4.31	0.42	-0.12	0.30	-13.27	23.45
NGC 1039	38.894637	41.993037	5462.90	111.36	4.64	0.41	0.24	0.12	-12.42	23.40
NGC 1039	38.621424	43.054810	5853.06	151.50	4.05	0.57	0.16	0.15	-10.96	21.56
NGC 1039	41.618934	42.314465	7401.63	231.29	4.02	0.37	-0.01	0.23	-14.40	22.35
NGC 1039	41.143703	42.713600	6266.13	243.17	4.29	0.47	-0.12	0.24	-12.23	23.28
NGC 1039	39.044809	42.833946	6924.13	230.55	4.07	0.38	-0.23	0.26	-13.54	23.31
NGC 1039	38.927342	42.847588	6998.88	198.71	4.03	0.40	-0.03	0.22	-8.29	14.41
NGC 1039	39.108357	42.914574	6176.80	266.67	4.27	0.55	-0.11	0.26	-14.41	22.34
NGC 1039	38.963378	42.454086	6082.53	290.32	4.23	0.57	0.15	0.25	-16.08	18.67
NGC 1039	38.670714	42.953228	6280.12	157.79	4.11	0.49	0.08	0.14	-9.94	19.22
NGC 1039	38.988506	43.169262	5847.51	253.16	3.83	0.71	-0.48	0.29	-15.44	20.30



(Continued.)

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NGC 1039	39.350717	42.387424	5771.46	312.01	4.16	0.58	0.24	0.28	-15.28	20.67
NGC 1039	39.932311	42.824333	6266.07	309.07	4.36	0.50	0.02	0.28	-9.40	17.73
NGC 1039	39.526987	43.952633	6222.38	267.63	4.16	0.51	-0.33	0.28	-9.12	16.92
NGC 1039	39.855388	43.823647	5807.32	153.63	4.38	0.52	-0.61	0.21	-16.04	18.78
NGC 1039	39.935506	43.609631	5599.58	212.54	4.33	0.56	-0.07	0.23	-15.35	20.51
NGC 1039	41.347917	43.914532	5974.51	219.85	4.36	0.51	-0.06	0.22	-16.95	16.16
NGC 1039	41.271627	43.983395	6043.52	248.72	4.24	0.53	-0.40	0.27	-15.04	21.19
NGC 1039	41.066617	43.039402	6327.32	326.51	4.21	0.49	-0.26	0.33	-10.86	21.36
NGC 1039	40.901173	43.212139	5971.65	291.74	4.11	0.59	0.18	0.25	-14.31	22.49
NGC 1039	40.556912	43.530113	6338.47	308.93	4.18	0.48	-0.27	0.31	-12.19	23.25
NGC 1039	40.433584	43.074684	5992.86	285.73	4.25	0.58	-0.17	0.29	-17.27	15.20
NGC 1039	41.406764	43.610546	5859.60	357.45	4.14	0.62	0.01	0.33	-10.32	20.17
NGC 1039	41.062067	43.522388	6169.56	300.87	4.31	0.53	0.14	0.26	-16.05	18.75
NGC 1039	40.271815	42.877323	6802.40	203.70	4.12	0.39	-0.10	0.21	-17.32	15.04
NGC 1039	39.964192	42.880524	6706.21	194.28	4.14	0.39	-0.08	0.19	-15.00	21.27
NGC 1039	41.899793	43.600212	4930.86	120.83	4.70	0.32	-0.01	0.16	-15.51	20.14
NGC 1039	42.340217	43.102077	5728.22	130.53	4.50	0.44	0.34	0.12	-16.69	16.94
NGC 1039	41.661592	43.799198	5914.85	127.11	4.42	0.48	-0.04	0.14	-8.38	14.69
NGC 1039	41.647945	43.545551	6624.29	143.29	4.12	0.39	-0.04	0.14	-8.61	15.39
NGC 1039	41.721005	42.835396	6132.93	273.52	4.41	0.54	-0.00	0.27	-16.48	17.55
NGC 1039	38.939933	43.516495	5405.45	489.04	3.71	0.77	-0.48	0.60	-13.88	23.02
NGC 1039	41.195153	42.641392	6594.18	268.71	4.11	0.40	-0.37	0.28	-10.09	19.60
NGC 1039	40.813531	42.554504	6255.73	324.93	3.50	0.61	0.15	0.26	-14.09	22.78
NGC 1039	40.386555	42.611679	6378.50	315.19	4.24	0.50	-0.05	0.30	-8.55	15.21
NGC 1039	40.449554	42.688465	5931.02	181.36	4.35	0.53	-0.02	0.18	-8.52	15.12
NGC 1039	39.854018	42.047695	5769.89	324.49	4.18	0.60	0.03	0.31	-8.55	15.21
NGC 1039	39.745185	42.169662	5943.33	289.50	4.27	0.59	0.13	0.26	-10.46	20.50
NGC 1039	39.527165	42.414543	5334.30	304.03	3.76	0.69	-0.45	0.37	-10.95	21.54
NGC 1039	39.742196	43.710541	6567.09	157.74	4.14	0.40	-0.07	0.16	-15.43	20.33
NGC 1039	41.051635	43.975941	6261.88	171.56	4.02	0.50	-0.35	0.19	-16.30	18.06
NGC 1039	41.244339	43.987514	5450.32	134.10	4.58	0.46	-0.26	0.18	-13.67	23.21
NGC 1039	40.454751	43.816597	5318.32	384.38	3.44	0.72	-0.57	0.48	-15.50	20.16
NGC 1039	40.425138	43.873577	5888.01	192.51	4.26	0.52	0.38	0.16	-15.79	19.44
NGC 1039	40.593004	42.987041	5595.96	256.65	4.41	0.55	-0.01	0.27	-11.70	22.75
NGC 1039	40.613648	42.830376	6100.53	217.51	4.27	0.53	-0.09	0.21	-11.47	22.43
NGC 1039	40.501747	42.814846	5547.35	171.17	4.59	0.48	0.09	0.19	-10.41	20.38
NGC 1039	39.736110	43.347675	5567.24	285.94	4.54	0.54	0.03	0.30	-13.20	23.48
NGC 1039	39.621793	43.372829	7969.26	100.79	3.97	0.35	-0.19	0.16	-11.49	22.46
NGC 1039	40.195524	42.945408	6725.99	305.09	4.31	0.38	-0.44	0.35	-11.12	21.86
NGC 1039	40.115625	42.918633	6858.35	157.34	4.06	0.35	-0.27	0.18	-8.47	14.96
NGC 1039	40.439656	42.816811	6418.76	194.91	4.28	0.42	-0.07	0.19	-14.45	22.27
NGC 1039	42.459014	42.547279	6293.14	239.88	4.29	0.49	-0.13	0.24	-9.74	18.68
NGC 1039	41.758138	42.581112	5888.00	326.58	4.01	0.66	-0.46	0.35	-15.29	20.65
NGC 1039	42.375851	42.765400	6338.95	286.58	4.31	0.41	-0.46	0.31	-16.91	16.28
NGC 1039	42.093278	43.547573	6533.80	301.42	4.11	0.45	-0.41	0.33	-11.20	22.00
NGC 1039	41.945359	43.425240	6147.02	200.17	4.30	0.51	0.01	0.19	-10.67	20.97
NGC 1039	41.745833	43.142906	5948.98	149.51	4.37	0.49	0.20	0.14	-17.50	14.49
NGC 1039	40.779840	42.029221	5209.17	113.24	4.73	0.36	0.13	0.14	-11.23	22.05
NGC 1039	41.613638	41.709258	5416.05	87.88	4.61	0.40	0.13	0.11	-13.19	23.48
NGC 1039	41.024265	42.096516	4323.63	54.56	4.73	0.19	-0.07	0.10	-12.30	23.33
NGC 1039	42.035922	42.601150	5650.60	124.97	4.16	0.53	0.09	0.13	-11.21	22.02
NGC 1039	40.561365	43.577554	4984.16	87.94	4.66	0.33	-0.18	0.13	-9.46	17.90
NGC 1039	40.592265	43.889407	6355.10	143.23	4.27	0.41	-0.06	0.14	-8.69	15.63
NGC 1039	38.948216	42.291727	5341.25	95.82	4.63	0.41	0.07	0.12	-10.33	20.19
NGC 1039	40.377537	42.481626	4961.04	80.15	4.75	0.29	0.07	0.11	-9.22	17.21
NGC 1039	40.463794	42.573574	4973.35	78.68	4.66	0.31	0.06	0.11	-11.63	22.66
NGC 1039	40.737092	42.589436	5317.11	83.68	4.63	0.38	0.11	0.11	-9.79	18.82
NGC 1039	40.849126	42.516405	4407.29	54.50	4.40	0.21	-0.06	0.09	-8.62	15.42
NGC 1039	40.454077	42.666590	4443.04	74.12	4.56	0.21	-0.10	0.12	-12.18	23.24

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 1039	40.886929	42.707085	4968.09	76.12	4.75	0.29	0.13	0.10	-8.96	16.44
NGC 1039	39.842768	42.416496	4169.27	48.96	4.67	0.20	-0.01	0.10	-10.95	21.54
NGC 1039	39.919787	42.458006	4405.24	54.42	4.74	0.18	-0.05	0.09	-9.67	18.49
NGC 1039	40.126581	42.697726	5182.03	84.30	4.64	0.35	0.09	0.11	-15.52	20.11
NGC 1039	40.138690	42.548404	4584.10	68.69	4.65	0.23	-0.03	0.10	-10.84	21.32
NGC 1039	41.151561	42.278788	4674.78	71.26	4.71	0.25	0.04	0.10	-11.37	22.28
NGC 1039	41.347209	42.228020	4399.12	71.68	4.36	0.23	-0.15	0.12	-15.20	20.85
NGC 1039	41.228706	42.559308	4996.01	83.71	4.71	0.31	0.06	0.11	-15.63	19.84
NGC 1039	41.408293	42.492501	4912.13	102.99	4.73	0.29	0.12	0.13	-17.20	15.41
NGC 1039	40.271403	42.945325	5263.91	118.50	4.61	0.38	0.12	0.14	-9.81	18.87
NGC 1039	40.531219	42.790756	4608.08	92.86	4.68	0.27	-0.31	0.14	-11.51	22.49
NGC 1039	40.790737	42.901161	4855.77	77.32	4.67	0.29	0.03	0.11	-8.33	14.54
NGC 1039	40.634502	42.818299	4540.00	59.90	4.36	0.25	-0.13	0.09	-11.43	22.37
NGC 1039	40.689402	42.868193	4722.71	68.83	4.73	0.25	-0.00	0.10	-10.09	19.60
NGC 1039	40.510593	42.864305	4894.54	80.19	4.67	0.30	0.02	0.11	-10.96	21.56
NGC 1039	40.741027	42.967736	4928.53	83.69	4.21	0.35	-0.08	0.12	-9.12	16.92
NGC 1039	40.153713	43.264090	4456.67	54.92	4.34	0.22	-0.10	0.09	-8.25	14.29
NGC 1039	39.701434	43.403258	5221.49	88.48	4.54	0.37	0.02	0.11	-9.17	17.07
NGC 1039	39.037430	43.158453	5993.40	183.31	4.22	0.54	-0.09	0.18	-17.01	15.98
NGC 1039	41.128361	41.403751	6399.01	189.57	4.28	0.44	-0.12	0.19	-10.35	20.24
NGC 1039	41.213609	41.912544	5423.87	199.46	4.72	0.44	-0.07	0.24	-12.57	23.46
NGC 1039	40.373508	41.973101	5949.52	233.88	4.45	0.49	-0.19	0.25	-16.45	17.63
NGC 1039	41.169726	42.236443	6697.37	200.28	4.20	0.39	-0.06	0.20	-12.01	23.09
NGC 1039	40.897542	42.158871	5152.45	133.70	4.71	0.35	0.16	0.16	-8.87	16.18
NGC 1039	41.111833	42.177086	6152.54	237.48	4.30	0.47	-0.07	0.23	-11.81	22.88
NGC 1039	41.124589	42.318218	6144.02	147.35	4.24	0.49	0.25	0.13	-13.75	23.14
NGC 1039	40.108079	42.552284	5792.09	197.43	4.50	0.51	-0.09	0.21	-13.55	23.30
NGC 1039	40.472894	42.240620	6598.68	183.25	4.21	0.41	-0.13	0.20	-11.75	22.81
NGC 1039	40.813531	42.554504	6315.61	248.50	4.23	0.47	0.05	0.22	-12.04	23.12
NGC 1039	42.330590	42.275959	5502.22	315.68	4.14	0.57	-0.10	0.33	-12.55	23.46
NGC 1039	41.461384	41.728989	6092.65	266.84	4.13	0.54	0.07	0.23	-17.36	14.92
NGC 1039	40.501734	41.533962	4731.98	153.14	4.68	0.28	-0.10	0.21	-10.67	20.97
NGC 1039	39.898113	41.453636	5927.51	179.28	4.37	0.51	-0.19	0.19	-8.84	16.09
NGC 1039	39.593162	41.601669	6061.39	211.72	4.31	0.50	-0.12	0.21	-13.40	23.39
NGC 1039	39.744248	41.650604	4863.58	206.85	4.38	0.34	0.22	0.23	-9.60	18.30
NGC 1039	38.911210	42.291138	5616.01	294.21	3.99	0.68	-0.25	0.32	-14.72	21.82
NGC 1039	39.745185	42.169662	5872.54	159.86	4.23	0.52	0.08	0.15	-14.00	22.89
NGC 1039	39.628341	42.057079	5087.52	268.47	3.75	0.57	-0.47	0.35	-16.27	18.15
NGC 1039	39.521980	42.301228	6608.46	150.41	4.18	0.39	-0.05	0.15	-9.86	19.00
NGC 1039	39.173468	42.252949	5795.27	297.43	3.82	0.70	-0.38	0.31	-10.88	21.40
NGC 1647	70.109071	18.539018	4690.88	82.56	4.55	0.28	-0.32	0.13	-11.85	26.56
NGC 1647	71.166730	19.781002	6374.79	140.97	4.15	0.43	-0.17	0.14	-7.27	22.96
NGC 1647	71.279574	19.667361	6485.96	146.59	4.01	0.42	-0.17	0.15	-5.01	16.96
NGC 1647	71.482531	20.539818	5980.13	150.40	4.29	0.52	-0.07	0.16	-15.27	19.68
NGC 1647	71.875848	20.439065	4642.98	125.90	2.20	0.61	-0.51	0.20	-5.33	17.87
NGC 1647	71.495941	20.290155	5249.11	120.20	4.40	0.44	-0.12	0.15	-11.88	26.53
NGC 1647	71.655573	19.611604	5690.29	164.59	4.30	0.53	0.01	0.17	-13.27	24.47
NGC 1647	71.639626	20.206044	5094.47	98.13	4.75	0.33	0.09	0.13	-11.53	26.83
NGC 1647	71.823570	19.856829	5315.28	147.06	4.45	0.46	-0.04	0.18	-10.96	27.12
NGC 1647	71.474301	19.919368	5288.95	150.21	4.55	0.43	0.10	0.18	-8.64	25.61
NGC 1647	71.362548	19.908846	5639.75	135.81	4.42	0.49	0.03	0.15	-9.53	26.68
NGC 1647	71.701791	19.745839	4906.94	150.39	2.42	0.69	-0.38	0.23	-12.60	25.62
NGC 1647	71.518329	19.512189	6273.98	135.77	4.26	0.46	-0.15	0.15	-12.94	25.07
NGC 1647	70.270155	18.981270	5523.96	114.63	4.39	0.45	0.30	0.12	-9.39	26.55
NGC 1647	70.211062	19.026553	4618.66	68.68	4.69	0.23	0.02	0.10	-9.82	26.90
NGC 1647	70.997261	18.991901	5765.30	143.25	4.44	0.49	0.01	0.15	-9.95	26.98
NGC 1647	71.049606	19.076776	6309.96	133.25	4.21	0.44	-0.09	0.13	-8.71	25.72
NGC 1647	71.137023	18.910077	5488.72	115.69	4.42	0.45	0.12	0.13	-11.60	26.78
NGC 1647	71.046184	19.012151	5784.56	157.88	4.51	0.47	0.13	0.16	-9.16	26.31

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV (kms $^{-1}$ )	$P_c^{RV}$ (%)
NGC 1647	71.249717	18.880213	5640.35	149.51	4.37	0.50	-0.03	0.16	-12.13	26.26
NGC 1647	71.287440	19.007523	4875.33	143.70	2.25	0.67	-0.56	0.23	-14.52	21.65
NGC 1647	70.564619	19.200742	5920.59	187.08	4.33	0.50	0.12	0.17	-8.27	25.01
NGC 1647	70.741329	19.090757	5702.18	141.00	4.39	0.50	0.00	0.15	-12.60	25.62
NGC 1647	71.425954	19.256871	4733.12	128.76	1.74	0.60	-0.72	0.23	-8.69	25.69
NGC 1647	70.356562	18.362810	5445.27	148.90	4.50	0.44	0.10	0.17	-16.25	16.93
NGC 1647	71.084058	19.383644	5831.00	154.30	4.45	0.49	0.01	0.16	-12.27	26.09
NGC 1647	71.327430	19.270158	5358.07	149.20	4.26	0.50	-0.14	0.18	-11.51	26.85
NGC 1647	71.034196	18.809514	5786.54	188.70	4.25	0.56	-0.39	0.22	-8.29	25.04
NGC 1647	70.974022	18.833450	5723.28	153.76	4.26	0.55	0.03	0.16	-11.99	26.42
NGC 1647	70.902235	18.562377	5498.04	139.43	4.38	0.49	0.03	0.16	-6.99	22.30
NGC 1647	70.703901	20.160456	4669.86	137.01	1.90	0.62	-0.62	0.23	-15.83	18.12
NGC 1647	70.366944	19.677971	6077.49	142.69	4.04	0.53	0.02	0.14	-8.03	24.57
NGC 1647	70.735078	19.723178	6011.72	172.81	3.83	0.60	-0.26	0.18	-16.33	16.70
NGC 1647	70.827898	19.941283	5410.84	156.66	4.54	0.46	-0.04	0.19	-10.70	27.16
NGC 1647	70.072047	19.340168	5358.67	154.14	4.34	0.47	0.22	0.17	-12.59	25.64
NGC 1647	70.158647	19.260139	4336.83	71.02	4.72	0.20	-0.16	0.13	-10.14	27.07
NGC 1647	70.201217	19.409688	5410.94	139.13	4.37	0.49	-0.01	0.17	-14.58	21.50
NGC 1647	70.538989	20.179684	4747.97	153.40	1.95	0.69	-0.67	0.26	-8.80	25.85
NGC 1647	70.280872	18.298806	4340.15	72.89	4.51	0.21	-0.02	0.12	-11.36	26.95
NGC 1647	71.386420	20.387139	5710.94	286.07	4.44	0.57	-0.20	0.32	-13.38	24.25
NGC 1647	71.968463	20.457796	5674.35	190.24	4.31	0.56	0.02	0.20	-7.68	23.87
NGC 1647	71.495941	20.290155	5181.28	164.41	4.20	0.48	-0.13	0.20	-13.66	23.67
NGC 1647	72.094642	20.280717	6060.33	218.93	4.18	0.55	-0.05	0.21	-10.68	27.16
NGC 1647	71.652113	19.968661	5643.67	181.68	4.18	0.60	-0.09	0.20	-8.06	24.62
NGC 1647	71.317054	19.879518	6108.06	214.25	4.15	0.55	-0.13	0.21	-14.62	21.40
NGC 1647	71.353552	19.502543	4757.40	147.72	2.53	0.60	-0.28	0.21	-15.45	19.18
NGC 1647	71.518329	19.512189	6237.02	170.62	4.20	0.49	-0.08	0.17	-9.41	26.57
NGC 1647	71.545889	19.662866	5823.15	164.40	4.23	0.57	-0.12	0.18	-16.31	16.76
NGC 1647	70.682057	18.989846	5846.83	195.68	4.43	0.51	-0.02	0.20	-14.91	20.64
NGC 1647	70.537726	18.846568	5477.09	148.15	4.50	0.42	0.29	0.15	-4.97	16.85
NGC 1647	71.095240	19.155639	5740.28	171.38	4.34	0.51	0.07	0.17	-7.83	24.18
NGC 1647	71.026766	18.956918	6200.34	210.42	4.13	0.50	-0.46	0.23	-6.48	21.02
NGC 1647	71.129705	19.072018	6057.11	208.82	4.17	0.53	-0.07	0.20	-8.52	25.43
NGC 1647	71.515717	18.990502	5300.94	167.86	4.15	0.50	0.00	0.19	-13.95	23.03
NGC 1647	71.340610	19.077642	5038.94	154.18	4.40	0.39	-0.24	0.20	-9.81	26.90
NGC 1647	71.212326	19.072766	5814.16	146.90	4.36	0.49	-0.02	0.15	-7.26	22.94
NGC 1647	70.784330	19.289223	6114.32	186.33	4.19	0.49	0.10	0.16	-6.55	21.20
NGC 1647	70.727113	19.234217	4774.57	157.53	2.23	0.60	-0.39	0.24	-16.09	17.38
NGC 1647	71.435903	19.208574	6417.48	148.73	4.42	0.36	-0.13	0.15	-13.18	24.64
NGC 1647	71.436138	19.124398	5304.53	169.63	4.00	0.54	-0.07	0.20	-13.64	23.71
NGC 1647	71.776004	19.329339	5119.73	186.35	3.60	0.58	-0.41	0.24	-5.47	18.27
NGC 1647	71.017071	19.489659	6174.37	155.10	4.29	0.47	-0.05	0.15	-5.86	19.35
NGC 1647	71.327430	19.270158	5467.06	229.31	4.38	0.51	-0.01	0.25	-5.11	17.25
NGC 1647	71.243732	18.806704	5250.45	177.99	4.03	0.52	-0.07	0.21	-13.60	23.80
NGC 1647	71.068194	18.671845	4871.29	123.12	4.11	0.39	-0.15	0.17	-10.60	27.16
NGC 1647	71.188382	18.708068	6137.66	171.83	4.27	0.51	-0.06	0.17	-7.93	24.37
NGC 1647	71.096267	18.713053	6940.53	154.83	3.64	0.39	0.53	0.11	-11.78	26.63
NGC 1647	70.619166	18.631078	5606.32	188.39	3.84	0.59	0.22	0.19	-7.19	22.78
NGC 1647	70.483765	18.749569	5037.05	120.45	4.53	0.36	0.07	0.15	-14.21	22.42
NGC 1647	70.702336	18.513820	5549.58	191.14	4.44	0.51	0.02	0.21	-10.86	27.14
NGC 1647	70.357473	20.096688	5448.55	249.90	4.23	0.58	0.07	0.27	-15.83	18.12
NGC 1647	70.713110	20.117556	5769.37	185.05	4.20	0.58	-0.04	0.19	-14.75	21.06
NGC 1647	70.549808	20.116554	4898.52	167.04	2.05	0.78	-0.78	0.29	-10.20	27.09
NGC 1647	70.984978	20.566700	5049.42	132.39	4.67	0.37	-0.32	0.19	-10.22	27.10
NGC 1647	70.800600	20.378685	6139.93	173.72	4.29	0.50	-0.11	0.18	-10.85	27.14
NGC 1647	70.407697	19.800222	5379.44	206.91	3.85	0.62	-0.09	0.24	-4.84	16.48
NGC 1647	70.585734	19.836512	5478.16	185.82	4.14	0.56	-0.04	0.21	-12.19	26.19
NGC 1647	70.564412	20.055967	4839.30	211.67	3.29	0.56	-0.29	0.28	-14.85	20.80

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{km s}^{-1}$ )	$P_c^{RV}$ (%)
NGC 1647	70.689075	19.926316	5335.49	185.23	4.26	0.52	-0.06	0.22	-12.37	25.95
NGC 1647	70.189763	19.787800	4909.92	145.84	2.23	0.74	-0.63	0.24	-16.07	17.44
NGC 1647	70.242172	19.637630	5983.31	239.65	4.06	0.58	-0.20	0.24	-9.32	26.48
NGC 2183	92.584230	-5.463521	7500.12	159.24	4.03	0.34	-0.12	0.16	19.10	26.00
NGC 2183	92.360733	-5.542884	6314.43	207.24	4.29	0.46	-0.07	0.20	23.92	21.86
NGC 2183	92.498269	-5.645732	5822.86	216.79	4.38	0.55	-0.27	0.24	26.31	18.05
NGC 2183	92.584230	-5.463521	7484.29	235.49	4.02	0.36	-0.07	0.23	18.96	26.02
NGC 2183	91.997640	-6.440968	7226.20	128.53	4.01	0.35	-0.10	0.15	18.52	26.04
NGC 2183	92.614492	-6.971110	5971.58	170.39	4.05	0.57	-0.46	0.20	16.07	25.05
NGC 2183	92.560947	-6.458740	8490.79	194.57	4.36	0.39	0.06	0.26	23.54	22.39
NGC 2183	92.264433	-6.266532	6626.26	81.91	4.18	0.38	-0.01	0.10	13.92	22.79
NGC 2183	93.199746	-5.880535	5741.95	128.57	4.44	0.48	0.11	0.14	26.77	17.25
NGC 2183	92.787960	-5.477349	5981.38	191.04	4.42	0.49	-0.18	0.20	20.99	25.13
NGC 2183	92.713285	-5.624437	6709.46	94.83	4.17	0.35	-0.04	0.10	25.47	19.46
NGC 2183	92.834186	-5.707636	5372.13	132.13	4.59	0.43	0.04	0.16	21.66	24.57
NGC 2183	92.640763	-5.803137	6330.17	110.85	4.11	0.44	-0.28	0.12	23.90	21.89
NGC 2183	92.640967	-6.194748	6338.26	163.29	4.26	0.43	-0.31	0.18	15.93	24.94
NGC 2183	92.597235	-6.064315	5594.65	164.07	3.74	0.68	-0.28	0.19	24.18	21.48
NGC 2183	92.962780	-6.406791	5869.48	116.77	4.47	0.48	0.01	0.13	18.55	26.04
NGC 2183	92.778320	-6.452327	6333.33	148.05	4.25	0.45	0.03	0.14	16.21	25.15
NGC 2183	93.033945	-6.506193	6669.38	92.27	4.08	0.37	-0.14	0.11	22.26	23.97
NGC 2183	92.902183	-6.272034	6510.46	131.99	4.22	0.41	-0.23	0.15	17.47	25.84
NGC 2183	92.419609	-5.554855	6260.67	202.66	4.31	0.46	-0.12	0.20	17.33	25.79
NGC 2183	92.284428	-5.911426	5774.46	294.66	4.44	0.56	-0.11	0.31	12.63	20.95
NGC 2183	92.568545	-5.741556	6362.93	163.39	3.99	0.48	-0.23	0.17	26.14	18.34
NGC 2183	92.319241	-5.761145	6254.05	89.35	4.33	0.42	0.01	0.10	19.66	25.86
NGC 2183	92.008250	-6.209629	6330.11	123.96	4.03	0.46	-0.02	0.12	17.96	25.98
NGC 2183	92.097493	-6.578265	6155.90	90.32	3.88	0.54	-0.11	0.10	12.71	21.07
NGC 2183	92.678870	-6.660466	6400.29	121.42	4.17	0.40	-0.52	0.15	22.25	23.98
NGC 2183	92.355755	-6.552259	7608.50	188.17	3.85	0.44	-0.09	0.22	24.34	21.24
NGC 2183	92.741944	-6.565137	5877.68	126.90	4.28	0.53	-0.17	0.14	13.97	22.85
NGC 2183	92.614492	-6.971110	5987.55	173.05	4.10	0.54	-0.44	0.20	14.92	23.98
NGC 2183	92.290286	-6.242090	6106.37	116.38	4.34	0.46	-0.04	0.12	14.78	23.83
NGC 2183	92.979699	-6.832617	5803.17	182.07	4.41	0.54	-0.10	0.20	21.00	25.12
NGC 2183	93.087665	-6.570112	7151.88	142.31	4.06	0.37	-0.15	0.18	15.81	24.84
NGC 2183	93.106056	-6.262069	5984.29	157.25	4.36	0.49	-0.27	0.18	27.60	15.81
NGC 2183	92.945348	-5.554990	6487.41	161.28	4.23	0.41	0.00	0.15	12.00	19.96
NGC 2183	92.988801	-5.611045	6879.01	220.26	3.98	0.43	0.14	0.21	23.92	21.86
NGC 2183	93.092680	-5.821286	7262.50	221.55	4.16	0.37	-0.20	0.26	22.17	24.06
NGC 2183	93.090075	-5.590400	5494.66	167.40	4.66	0.43	0.23	0.18	20.43	25.50
NGC 2183	92.713997	-5.624348	6715.66	109.90	4.18	0.36	-0.03	0.12	23.72	22.14
NGC 2183	92.761089	-5.821800	5856.81	184.03	4.49	0.50	0.13	0.18	11.05	18.38
NGC 2183	92.721244	-5.896632	6572.39	85.54	3.99	0.40	0.01	0.09	22.22	24.01
NGC 2183	92.652433	-6.050390	5381.83	151.62	4.75	0.41	0.07	0.18	9.97	16.51
NGC 2183	92.604783	-6.263643	6155.37	168.48	4.26	0.48	0.01	0.16	21.55	24.67
NGC 2183	92.769049	-6.087158	5982.54	159.10	4.52	0.47	0.06	0.16	13.73	22.53
NGC 2183	93.033945	-6.506193	6679.71	97.35	4.09	0.36	-0.14	0.11	23.66	22.23
NGC 2183	92.356798	-6.077088	6301.67	126.26	4.20	0.46	0.10	0.12	13.60	22.36
NGC 2183	92.284428	-5.911426	5814.92	269.61	4.44	0.55	-0.10	0.28	14.02	22.91
NGC 2183	92.319241	-5.761145	6265.98	86.83	4.36	0.41	0.02	0.09	19.67	25.85
NGC 2183	92.383687	-5.652382	6434.35	119.37	3.98	0.45	0.03	0.12	25.62	19.21
NGC 2183	92.498269	-5.645732	5819.55	157.31	4.38	0.53	-0.27	0.18	25.37	19.62
NGC 2183	92.008250	-6.209629	6279.08	117.70	4.07	0.47	-0.03	0.12	15.86	24.88
NGC 2183	92.194306	-5.962402	7121.64	140.80	4.01	0.39	-0.17	0.19	13.44	22.14
NGC 2183	92.197579	-5.891140	7147.64	157.38	3.92	0.37	0.06	0.16	19.59	25.88
NGC 2183	92.103968	-6.333071	5862.42	136.08	4.42	0.50	-0.37	0.17	21.55	24.67
NGC 2183	92.002723	-6.538803	4014.71	45.83	3.65	0.36	-0.87	0.22	23.99	21.76
NGC 2183	92.077067	-6.568261	4794.26	113.90	4.25	0.38	-0.39	0.17	12.09	20.10
NGC 2183	92.018050	-6.477602	5659.96	140.70	4.36	0.53	-0.36	0.18	16.42	25.30

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{km s}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2183	92.213905	-6.367072	5708.97	137.02	4.45	0.50	-0.28	0.17	11.05	18.38
NGC 2183	92.166108	-5.873258	4911.83	107.22	3.90	0.42	-0.18	0.15	10.97	18.24
NGC 2183	93.415532	-6.384477	6130.52	199.05	4.12	0.55	-0.00	0.19	26.71	17.36
NGC 2183	93.314479	-6.358097	6670.87	268.71	4.19	0.39	-0.26	0.29	10.20	16.91
NGC 2183	93.154943	-6.803354	5986.56	209.94	3.68	0.66	-0.24	0.22	18.34	26.03
NGC 2183	92.594538	-6.801802	6324.19	142.26	4.10	0.46	-0.29	0.16	19.07	26.00
NGC 2183	92.530437	-6.382484	4636.06	93.68	4.64	0.27	-0.10	0.13	14.34	23.31
NGC 2183	92.360931	-6.438891	6571.12	129.83	3.79	0.47	0.15	0.12	24.89	20.40
NGC 2183	92.659119	-6.284021	4655.48	85.05	4.39	0.31	-0.19	0.13	11.65	19.38
NGC 2183	92.718992	-6.312863	4142.32	85.65	4.19	0.29	-0.34	0.19	23.44	22.53
NGC 2183	92.591709	-6.521377	5480.20	129.61	4.51	0.48	-0.00	0.16	14.42	23.41
NGC 2183	93.050702	-6.769672	6557.71	263.66	4.05	0.49	-0.16	0.25	13.80	22.63
NGC 2183	93.116162	-6.330994	4819.58	96.81	4.68	0.29	0.10	0.13	20.84	25.24
NGC 2183	92.852390	-6.410379	6837.97	164.01	4.18	0.35	-0.12	0.17	25.53	19.36
NGC 2183	92.394251	-6.081888	6284.69	171.40	4.12	0.48	-0.07	0.16	13.06	21.59
NGC 2183	92.693213	-5.424936	5788.28	202.51	3.83	0.65	0.01	0.20	21.07	25.07
NGC 2183	92.630743	-5.443072	5595.38	178.48	3.53	0.74	-0.43	0.22	23.98	21.78
NGC 2183	92.874301	-5.667613	6207.92	205.25	4.01	0.54	-0.34	0.22	23.90	21.89
NGC 2183	93.104595	-5.687059	6557.48	146.94	4.14	0.40	-0.15	0.15	23.06	23.02
NGC 2183	92.603173	-5.748768	6188.28	149.02	4.03	0.52	-0.07	0.15	14.46	23.46
NGC 2183	92.368536	-5.776907	5183.34	300.22	3.35	0.69	-0.34	0.35	11.56	19.24
NGC 2183	92.494689	-5.917679	5197.27	186.82	3.52	0.49	0.35	0.18	15.97	24.97
NGC 2183	92.651219	-5.903261	5447.09	160.76	4.78	0.43	-0.16	0.21	24.93	20.33
NGC 2183	93.401264	-6.292786	6219.64	235.53	4.31	0.48	-0.31	0.25	23.41	22.57
NGC 2183	93.400905	-5.942336	5614.38	175.41	3.89	0.62	0.03	0.19	26.71	17.36
NGC 2183	93.307281	-5.941510	6138.28	192.10	3.96	0.56	-0.11	0.19	21.13	25.02
NGC 2183	92.002277	-6.318507	6663.76	96.38	4.23	0.35	-0.07	0.11	18.40	26.03
NGC 2183	92.083314	-6.578970	5957.37	97.07	4.16	0.52	-0.39	0.12	11.26	18.73
NGC 2183	91.997683	-6.440997	7215.32	92.10	4.05	0.33	-0.09	0.11	17.68	25.91
NGC 2183	92.163600	-6.124540	7771.83	219.55	3.98	0.42	-0.09	0.24	18.60	26.04
NGC 2183	92.357006	-6.077082	6307.31	80.26	4.17	0.44	0.10	0.08	17.66	25.90
NGC 2183	92.373639	-6.156412	7352.32	156.72	4.07	0.36	0.03	0.16	16.64	25.44
NGC 2183	92.937627	-6.713125	6482.21	562.58	4.52	0.43	-0.42	0.66	24.29	21.32
NGC 2183	92.900703	-6.754956	6107.72	177.49	4.31	0.51	-0.13	0.18	21.83	24.41
NGC 2183	92.962779	-6.406789	5863.77	104.75	4.46	0.48	-0.03	0.12	11.79	19.61
NGC 2183	92.258523	-6.716825	5634.82	94.16	4.33	0.46	0.38	0.10	20.57	25.42
NGC 2183	92.396704	-6.469370	6018.00	107.18	4.18	0.52	0.03	0.11	18.49	26.04
NGC 2183	92.395529	-6.688808	5873.87	95.23	4.13	0.53	0.15	0.10	26.87	17.08
NGC 2183	92.521312	-6.006841	6118.32	105.70	4.30	0.47	-0.17	0.12	11.79	19.61
NGC 2183	92.640986	-6.194735	6474.40	137.42	4.21	0.39	-0.35	0.15	13.13	21.69
NGC 2183	92.714386	-5.624366	6668.00	89.24	4.19	0.36	-0.03	0.10	23.94	21.83
NGC 2183	92.771398	-5.863880	6130.52	152.90	4.19	0.51	-0.10	0.15	21.43	24.78
NGC 2183	92.891705	-5.965141	7376.60	109.43	3.92	0.38	-0.12	0.14	23.86	21.95
NGC 2183	92.419597	-5.554873	6389.91	146.76	4.25	0.43	-0.09	0.15	19.90	25.76
NGC 2183	92.945315	-5.554974	6487.83	137.99	4.20	0.41	-0.03	0.14	10.15	16.83
NGC 2183	92.807821	-5.673518	5282.24	128.97	4.70	0.39	0.17	0.15	22.88	23.25
NGC 2183	92.564965	-5.805354	7288.81	125.31	3.96	0.36	0.11	0.13	23.54	22.39
NGC 2183	92.425787	-5.899186	6500.71	93.32	4.25	0.39	-0.09	0.11	22.68	23.49
NGC 2183	92.640710	-5.803120	6354.24	122.17	4.13	0.44	-0.24	0.14	16.52	25.37
NGC 2183	92.319220	-5.761149	6228.79	93.32	4.32	0.45	0.01	0.10	23.07	23.01
NGC 2183	93.090038	-5.590392	5479.32	113.67	4.64	0.41	0.24	0.13	22.22	24.01
NGC 2183	93.090038	-5.590392	5427.14	126.48	4.53	0.44	0.18	0.14	19.70	25.84
NGC 1912	82.539628	36.514435	7350.06	312.27	4.17	0.37	0.02	0.28	6.22	26.78
NGC 1912	81.907896	36.031965	7038.48	172.76	4.02	0.35	0.11	0.17	4.77	32.07
NGC 1912	82.010473	36.031053	7721.04	217.33	4.09	0.40	-0.32	0.30	-4.67	30.87
NGC 1912	81.354476	35.968899	6632.10	188.79	4.12	0.38	-0.15	0.18	-5.80	26.69
NGC 1912	82.326016	36.097890	6915.02	222.28	4.21	0.33	-0.18	0.23	-3.52	34.70
NGC 1912	81.767072	35.708202	6078.16	196.03	4.31	0.50	-0.01	0.18	6.48	25.79
NGC 1912	82.060197	35.528253	7422.43	250.01	4.05	0.40	0.17	0.22	-2.95	36.35

(Continued.)

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NGC 1912	82.109335	35.879204	6595.62	178.55	4.06	0.41	-0.12	0.18	3.96	34.71
NGC 1912	82.020551	35.880601	7024.91	230.98	4.20	0.33	-0.19	0.24	-6.07	25.66
NGC 1912	82.019780	36.020286	6410.30	202.82	4.22	0.43	-0.23	0.21	-1.60	39.36
NGC 1912	82.160604	35.819280	8310.02	141.32	3.96	0.40	-0.45	0.19	-4.07	32.94
NGC 1912	82.517774	35.812384	7184.16	235.43	4.16	0.41	-0.10	0.30	-2.95	36.35
NGC 1912	81.739141	36.007501	7543.10	207.48	4.07	0.40	-0.18	0.28	2.05	39.35
NGC 1912	81.432556	36.055777	7909.06	121.24	4.10	0.34	-0.11	0.18	-1.03	40.18
NGC 1912	82.903374	36.273922	6868.97	194.12	4.18	0.35	-0.05	0.19	2.23	39.03
NGC 1912	82.220455	36.128992	7274.55	218.75	4.18	0.32	-0.18	0.22	-0.16	40.86
NGC 1912	82.278458	36.271576	6901.31	199.11	4.16	0.37	-0.18	0.23	-3.55	34.61
NGC 1912	82.219693	35.639864	7426.72	197.45	4.00	0.38	0.14	0.19	-2.97	36.30
NGC 1912	81.834639	35.500030	5979.29	189.29	4.36	0.51	-0.00	0.19	-2.12	38.37
NGC 1912	81.457798	35.637275	5758.04	223.88	3.60	0.71	-0.19	0.24	1.23	40.44
NGC 1912	81.310644	35.764967	5715.57	174.98	4.44	0.53	-0.10	0.20	3.71	35.46
NGC 1912	81.922060	35.862551	7014.84	266.30	4.03	0.39	0.00	0.26	2.04	39.37
NGC 1912	82.398643	35.762021	7912.10	133.53	4.09	0.38	-0.20	0.22	-5.89	26.35
NGC 1912	82.135323	35.934785	8374.97	158.68	3.94	0.53	-0.55	0.22	-3.13	35.85
NGC 1912	82.235392	35.812099	7696.62	93.95	4.17	0.30	-0.15	0.17	-3.09	35.96
NGC 1912	82.150155	35.819408	7266.73	216.28	4.03	0.37	-0.18	0.24	-1.75	39.09
NGC 1912	81.274428	35.870176	7264.97	163.78	3.96	0.40	0.20	0.16	2.38	38.74
NGC 1912	82.427148	36.180408	8260.19	248.24	4.09	0.38	-0.02	0.24	1.76	39.80
NGC 1912	82.798181	36.132792	6271.24	150.01	4.11	0.47	-0.10	0.15	6.30	26.48
NGC 1912	82.337563	36.173446	6672.83	185.44	4.32	0.34	-0.08	0.18	-0.56	40.64
NGC 1912	81.902765	36.129665	7274.76	208.89	4.24	0.33	-0.21	0.23	-3.74	34.01
NGC 1912	82.105374	36.143320	6439.18	164.33	4.24	0.43	0.02	0.16	4.14	34.15
NGC 1912	81.834634	35.500031	6034.71	178.58	4.37	0.49	-0.03	0.18	-4.99	29.71
NGC 1912	81.550370	35.241615	6250.09	231.95	4.17	0.50	-0.09	0.21	-2.93	36.40
NGC 1912	81.882054	35.111698	6198.19	231.01	4.26	0.52	-0.09	0.23	5.05	31.09
NGC 1912	82.157370	35.186681	7632.74	187.82	3.99	0.47	-0.25	0.29	-0.82	40.41
NGC 1912	81.987477	35.164449	5384.97	292.47	3.78	0.80	-0.77	0.39	1.51	40.14
NGC 1912	82.053775	35.799854	6452.98	206.75	4.36	0.43	-0.14	0.21	-4.99	29.71
NGC 1912	82.517883	35.167376	6883.74	153.82	4.18	0.33	-0.28	0.23	-1.34	39.77
NGC 1912	82.335873	35.335885	8074.45	248.74	3.79	0.63	-0.51	0.39	3.96	34.71
NGC 1912	82.351471	35.195110	6880.47	269.29	3.94	0.33	-0.25	0.34	3.19	36.89
NGC 1912	82.212760	35.801271	6149.45	345.13	4.46	0.57	-0.12	0.32	4.03	34.50
NGC 1912	81.964307	35.722027	5896.63	291.84	3.77	0.65	0.15	0.30	-6.20	25.17
NGC 1912	82.765703	35.592928	7615.62	270.04	3.93	0.30	-0.81	0.47	4.58	32.72
NGC 1912	82.164747	36.279985	6659.86	222.97	4.20	0.40	0.00	0.21	-6.19	25.20
NGC 1912	82.458799	36.421301	5936.84	224.04	4.50	0.49	-0.01	0.23	2.47	38.56
NGC 1912	81.593949	35.781242	6892.46	282.89	4.06	0.40	0.09	0.27	0.18	40.93
NGC 1912	81.904861	36.047398	5625.70	186.83	4.69	0.44	-0.11	0.21	4.23	33.87
NGC 1912	81.903770	35.869805	6829.96	197.98	4.11	0.36	-0.21	0.21	-1.60	39.36
NGC 1912	82.139114	35.957831	6999.01	244.42	4.17	0.34	0.03	0.22	-1.82	38.97
NGC 1912	82.082232	35.876245	6199.72	199.42	3.92	0.54	-0.06	0.18	1.88	39.62
NGC 1912	81.698812	35.631759	7350.92	292.66	4.17	0.37	0.02	0.26	-0.61	40.60
NGC 1912	81.979673	35.451061	6703.21	254.49	3.90	0.52	-0.04	0.27	2.87	37.68
NGC 1912	81.954996	36.389436	6435.78	130.01	4.24	0.41	-0.08	0.13	1.46	40.20
NGC 1912	82.103625	36.375623	6107.81	183.87	4.46	0.47	0.06	0.18	5.21	30.52
NGC 1912	81.804162	36.493065	6050.78	184.44	4.38	0.50	-0.03	0.18	1.12	40.54
NGC 1912	82.736775	36.191084	4792.41	133.60	3.97	0.43	-0.25	0.19	-3.48	34.82
NGC 1912	82.458799	36.421301	5909.52	140.32	4.47	0.49	0.03	0.15	6.62	25.26
NGC 1912	82.437263	36.272378	5809.04	201.33	4.45	0.54	-0.12	0.22	-3.99	33.20
NGC 1912	81.965748	35.916684	5638.72	176.02	4.29	0.54	-0.15	0.20	3.31	36.58
NGC 1912	81.814123	35.864189	6474.56	201.45	3.90	0.47	-0.30	0.23	-5.43	28.08
NGC 1912	81.859998	35.770011	5631.40	113.59	4.50	0.45	0.10	0.12	0.41	40.91
NGC 1912	81.765358	35.789544	5351.47	127.59	4.22	0.47	0.01	0.15	-0.68	40.54
NGC 1912	81.896094	35.947302	8483.43	129.30	3.96	0.43	-0.49	0.16	4.72	32.24
NGC 1912	82.273610	35.873110	6397.59	155.19	4.33	0.39	-0.19	0.16	-2.54	37.41
NGC 1912	82.414374	35.757966	8155.05	113.84	3.87	0.37	-0.34	0.17	-4.08	32.90



(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 1912	81.290116	35.873777	5622.28	108.27	4.61	0.41	0.14	0.12	6.51	25.68
NGC 1912	81.392307	35.940398	7386.04	169.62	4.07	0.35	-0.14	0.19	-2.04	38.53
NGC 1912	82.717258	36.025702	6736.56	164.09	4.16	0.36	-0.06	0.16	-3.64	34.33
NGC 1912	82.166409	36.169769	6468.89	163.07	4.39	0.38	-0.13	0.17	0.33	40.92
NGC 1912	82.044436	35.508431	5821.76	178.56	3.79	0.66	-0.38	0.20	1.34	40.33
NGC 1912	81.676347	35.544913	6304.46	192.67	4.22	0.43	-0.21	0.19	2.05	39.35
NGC 1912	81.932091	35.510419	5814.10	136.08	4.13	0.57	-0.07	0.15	-0.02	40.90
NGC 1912	82.213101	36.466190	6605.59	153.92	4.19	0.38	-0.11	0.16	1.83	39.70
NGC 1912	82.539628	36.514435	7284.68	169.79	4.06	0.36	0.04	0.17	-0.04	40.90
NGC 1912	82.109335	35.879204	6576.82	161.27	4.04	0.41	-0.16	0.16	1.93	39.55
NGC 1912	82.019780	36.020286	6432.67	172.60	4.26	0.41	-0.23	0.18	3.61	35.75
NGC 1912	82.251454	35.809625	6195.70	148.69	4.08	0.48	-0.33	0.16	4.12	34.22
NGC 1912	82.160604	35.819280	8261.53	119.35	3.99	0.37	-0.39	0.16	2.32	38.86
NGC 1912	81.615719	35.920722	8282.95	168.53	3.97	0.40	-0.43	0.23	1.29	40.38
NGC 1912	81.432556	36.055777	7889.27	108.11	4.05	0.32	-0.14	0.16	-1.31	39.81
NGC 1912	82.903374	36.273922	6765.37	190.52	4.04	0.39	-0.07	0.19	2.10	39.26
NGC 1912	81.995890	36.247389	8030.66	122.91	3.94	0.31	-0.26	0.17	-5.89	26.35
NGC 1912	82.278458	36.271576	6969.65	161.88	4.14	0.36	-0.13	0.19	0.05	40.92
NGC 1912	81.998370	35.435172	7206.42	164.37	4.01	0.37	-0.02	0.18	4.40	33.32
NGC 2281	101.807590	41.624668	7553.75	119.10	3.85	0.40	0.59	0.10	19.02	67.22
NGC 2281	101.777500	41.493502	6689.38	127.98	4.25	0.36	-0.08	0.14	19.46	66.99
NGC 2281	102.571360	41.624424	6858.80	133.09	4.18	0.34	-0.13	0.15	22.78	60.95
NGC 2281	102.618250	41.726890	5865.22	196.46	4.50	0.50	-0.22	0.22	19.61	66.88
NGC 2281	102.182680	41.697480	5712.70	150.50	4.65	0.39	0.12	0.19	27.42	43.59
NGC 2281	102.275220	41.678120	7253.01	140.47	4.05	0.45	-0.09	0.20	24.19	56.44
NGC 2281	102.167040	41.424800	5932.19	157.64	4.50	0.49	-0.07	0.17	27.09	44.99
NGC 2281	102.434070	41.362415	6169.37	178.50	4.48	0.45	-0.12	0.19	20.61	65.73
NGC 2281	101.461560	40.854130	6186.08	176.31	4.29	0.46	-0.56	0.22	13.68	59.15
NGC 2281	101.809490	40.787689	6744.20	181.40	4.21	0.36	-0.11	0.18	15.85	64.71
NGC 2281	101.638930	40.879003	6495.41	245.64	4.16	0.42	-0.36	0.26	20.19	66.30
NGC 2281	102.093800	40.845478	6454.32	163.86	4.28	0.41	-0.05	0.16	11.39	50.87
NGC 2281	102.167130	40.863426	6408.45	213.75	4.18	0.45	-0.12	0.20	18.87	67.27
NGC 2281	102.184800	41.053352	5978.29	170.43	4.33	0.50	-0.04	0.17	10.57	47.52
NGC 2281	101.965910	41.036186	6837.97	139.58	4.17	0.33	-0.13	0.15	16.33	65.55
NGC 2281	101.939590	40.961514	7034.44	180.99	4.15	0.33	-0.12	0.19	16.18	65.30
NGC 2281	101.996620	40.898702	5897.93	176.01	4.44	0.48	-0.11	0.19	13.71	59.25
NGC 2281	102.017500	40.961219	6056.25	174.30	4.87	0.33	0.24	0.18	12.26	54.24
NGC 2281	102.319090	40.867396	6044.80	175.98	4.32	0.48	-0.03	0.17	16.49	65.79
NGC 2281	101.127380	40.974547	5969.67	193.26	4.24	0.43	-0.04	0.21	17.28	66.74
NGC 2281	101.086450	40.882260	6429.58	203.77	4.22	0.40	-0.33	0.21	9.16	41.55
NGC 2281	101.058620	41.020916	6751.73	151.08	4.10	0.36	0.01	0.14	16.73	66.13
NGC 2281	102.412670	41.102634	6327.02	167.00	4.23	0.44	-0.10	0.16	13.18	57.52
NGC 2281	101.934350	41.220572	6049.24	176.81	4.62	0.40	0.03	0.18	12.85	56.38
NGC 2281	101.739330	41.382591	5412.36	180.34	4.42	0.51	-0.41	0.23	14.28	60.96
NGC 2281	101.566300	41.171864	6491.28	167.29	3.92	0.44	-0.14	0.16	23.65	58.28
NGC 2281	101.894930	41.287754	6231.47	187.96	4.46	0.43	-0.11	0.19	15.33	63.63
NGC 2281	101.690060	41.261009	6372.92	183.75	4.37	0.42	-0.02	0.18	20.28	66.19
NGC 2281	101.692760	40.657871	5909.37	168.40	4.42	0.50	0.08	0.17	18.57	67.31
NGC 2281	101.102210	41.414235	5700.78	214.61	3.77	0.55	-0.21	0.27	14.65	61.97
NGC 2281	101.932630	41.673907	6531.02	223.59	4.21	0.44	-0.06	0.22	21.17	64.78
NGC 2281	102.799920	41.643070	6938.83	124.99	3.70	0.40	0.31	0.11	11.12	49.78
NGC 2281	102.655830	41.447334	7295.36	176.51	4.04	0.35	-0.14	0.19	18.89	67.27
NGC 2281	102.416320	41.450882	6269.45	221.16	4.43	0.45	0.02	0.21	19.08	67.20
NGC 2281	102.020050	41.845169	6110.90	188.76	4.66	0.40	0.41	0.17	12.77	56.10
NGC 2281	101.855980	41.857967	6617.33	148.17	4.13	0.40	-0.10	0.15	17.49	66.92
NGC 2281	101.770320	41.094082	7404.92	152.29	3.84	0.37	0.21	0.14	10.13	45.68
NGC 2281	101.572840	40.984358	6284.64	212.45	4.43	0.43	-0.09	0.21	9.28	42.07
NGC 2281	101.540220	40.836105	6588.63	168.35	4.17	0.34	-0.06	0.18	15.20	63.34
NGC 2281	101.839550	40.858418	6783.48	178.72	4.18	0.35	-0.08	0.18	13.92	59.90

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{km s}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2281	102.115930	40.816713	6015.69	170.21	4.12	0.45	-0.16	0.20	17.65	67.03
NGC 2281	102.167130	40.863426	6596.60	153.39	4.31	0.30	-0.25	0.18	26.96	45.54
NGC 2281	102.151410	41.057018	6700.48	153.68	4.34	0.35	-0.04	0.16	10.71	48.10
NGC 2281	102.168580	40.885408	5759.33	142.31	4.55	0.38	0.12	0.17	10.08	45.47
NGC 2281	101.910810	40.995750	6830.03	144.05	4.18	0.33	-0.19	0.15	12.18	53.94
NGC 2281	101.996620	40.898702	5927.87	185.75	4.55	0.46	-0.05	0.19	11.95	53.06
NGC 2281	102.129270	40.959583	7003.99	153.31	4.17	0.36	-0.12	0.18	18.88	67.27
NGC 2281	101.042160	40.947445	6598.92	198.99	3.77	0.45	-0.03	0.18	15.22	63.38
NGC 2281	101.058620	41.020916	6762.16	157.27	4.15	0.35	-0.04	0.15	14.70	62.10
NGC 2281	102.117870	41.247391	6483.75	190.43	4.19	0.41	-0.09	0.18	19.32	67.08
NGC 2281	101.690060	41.261009	6343.28	164.03	4.31	0.38	-0.02	0.18	22.89	60.63
NGC 2281	102.152060	41.265839	6846.67	168.34	4.24	0.33	-0.22	0.18	17.20	66.66
NGC 2281	101.630740	40.569103	6097.08	212.12	4.22	0.51	-0.07	0.20	13.77	59.44
NGC 2281	101.084080	41.234585	6299.39	186.14	4.15	0.48	-0.21	0.20	19.28	67.11
NGC 2281	103.110300	40.975472	6592.67	172.74	4.07	0.41	-0.18	0.18	14.86	62.51
NGC 2281	102.623250	40.837951	6740.35	197.86	4.17	0.37	-0.34	0.23	19.79	66.73
NGC 2281	102.767820	40.621674	5926.07	156.73	4.21	0.54	-0.32	0.18	12.21	54.05
NGC 2281	102.536960	40.700256	5528.35	128.85	4.50	0.47	0.02	0.15	25.80	50.34
NGC 2281	102.658210	40.441067	6028.67	147.60	4.13	0.53	-0.29	0.16	10.86	48.72
NGC 2281	102.554520	40.628801	5002.67	189.87	3.34	0.56	-0.08	0.24	14.42	61.35
NGC 2281	102.129270	40.959583	6947.37	139.46	4.13	0.38	-0.09	0.17	24.10	56.76
NGC 2281	102.041910	40.986094	7250.56	114.56	4.11	0.36	-0.12	0.14	19.77	66.75
NGC 2281	102.777580	41.038877	5893.90	179.15	4.38	0.53	-0.03	0.18	19.62	66.87
NGC 2281	102.412670	41.102634	6027.86	273.73	3.97	0.63	-0.40	0.31	19.34	67.07
NGC 2281	102.907160	41.108791	6159.65	307.82	4.25	0.53	-0.40	0.34	12.38	54.68
NGC 2281	102.434810	41.471351	6203.31	225.30	4.07	0.51	-0.26	0.23	9.76	44.11
NGC 2281	102.655830	41.447334	7256.53	110.30	4.07	0.33	-0.07	0.12	11.31	50.55
NGC 2281	102.366820	41.437981	5947.35	142.90	4.09	0.56	0.03	0.14	17.04	66.50
NGC 2281	102.648280	41.331329	6052.60	154.14	4.18	0.50	-0.54	0.19	26.44	47.72
NGC 2281	102.434070	41.362415	5661.25	250.38	3.93	0.72	-0.52	0.30	11.47	51.19
NGC 2281	102.571360	41.624424	6828.08	123.31	4.15	0.34	-0.14	0.14	21.17	64.78
NGC 2281	101.932630	41.673907	6434.34	218.62	4.16	0.44	-0.16	0.21	20.51	65.88
NGC 2281	102.114060	41.540713	6393.61	195.12	4.18	0.43	-0.30	0.21	18.64	67.31
NGC 2281	101.755170	41.658490	5888.12	188.58	4.35	0.52	0.18	0.17	27.22	44.44
NGC 2281	101.807590	41.624668	7472.33	131.04	3.83	0.39	0.56	0.11	20.08	66.43
NGC 2281	101.681940	41.797542	5756.82	349.74	3.75	0.70	-0.36	0.36	27.27	44.23
NGC 2281	101.926140	41.350704	6034.61	236.60	4.00	0.59	0.00	0.22	15.60	64.21
NGC 2281	101.934350	41.220572	5772.00	186.75	4.47	0.51	0.11	0.19	17.55	66.96
NGC 2281	102.036610	41.210640	7430.58	136.73	4.11	0.37	-0.02	0.15	17.07	66.53
NGC 2281	102.152060	41.265839	6841.55	138.83	4.17	0.35	-0.14	0.15	15.26	63.47
NGC 2281	101.978720	41.388012	5883.32	162.05	3.97	0.61	-0.31	0.18	18.49	67.31
NGC 2281	102.618250	41.726890	5840.62	170.17	4.44	0.52	-0.14	0.19	19.65	66.85
NGC 2281	102.397290	40.670473	5667.84	225.10	4.46	0.53	0.03	0.23	21.95	63.12
NGC 2281	102.658210	40.441067	6028.91	142.99	4.13	0.53	-0.30	0.16	10.81	48.52
NGC 2281	102.271810	40.756273	6088.67	185.59	4.36	0.50	-0.04	0.18	24.34	55.91
NGC 2281	103.045150	40.772264	6274.92	209.83	4.21	0.44	-0.28	0.22	9.65	43.64
NGC 2281	102.168580	40.885408	5494.70	166.24	4.44	0.49	-0.06	0.19	22.27	62.33
NGC 2281	102.319090	40.867396	6024.04	175.03	4.38	0.49	-0.07	0.18	21.68	63.74
NGC 2281	102.406250	41.013237	6638.89	132.63	4.16	0.38	-0.04	0.14	23.08	60.07
NGC 2281	102.496290	41.277422	5545.42	197.26	4.68	0.45	0.07	0.22	9.63	43.56
NGC 2281	102.362690	41.337954	5160.61	170.86	3.70	0.57	-0.23	0.22	22.06	62.85
NGC 2281	102.386800	41.262107	4964.57	160.33	3.94	0.45	-0.05	0.20	11.34	50.67
NGC 2281	102.326330	41.199657	6137.92	288.22	4.00	0.57	-0.05	0.26	18.14	67.26
NGC 2281	102.196260	41.479350	6241.49	163.79	4.29	0.46	-0.09	0.16	20.80	65.43
NGC 2281	101.777500	41.493502	6632.95	120.48	4.22	0.36	-0.07	0.13	18.06	67.23
NGC 2281	101.683470	41.454318	6192.57	249.01	4.25	0.47	-0.68	0.30	26.54	47.30
NGC 2281	102.020050	41.845169	5997.97	192.10	4.31	0.52	0.23	0.17	11.15	49.91
NGC 2281	103.022758	41.281021	5960.90	239.08	3.85	0.62	0.01	0.22	17.54	66.95
NGC 2281	102.923230	41.480371	6283.97	219.62	4.31	0.45	-0.06	0.20	9.98	45.05

(Continued.)

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NGC 2281	101.894930	41.287754	6093.36	186.56	4.29	0.52	-0.08	0.19	16.24	65.40
NGC 2281	102.054950	41.365444	5531.23	228.88	4.37	0.55	0.01	0.25	19.47	66.99
NGC 2281	102.177900	41.442102	6052.15	246.70	3.82	0.63	-0.14	0.24	15.17	63.27
NGC 2281	102.015840	41.208984	7082.60	129.15	4.14	0.34	0.01	0.14	17.53	66.95
NGC 2281	102.021410	41.324375	6065.69	223.50	4.31	0.53	-0.04	0.22	14.14	60.55
NGC 2281	102.834480	40.794192	8117.34	79.16	3.95	0.31	-0.27	0.12	11.31	50.55
NGC 2281	102.623250	40.837951	6791.07	217.26	4.21	0.36	-0.25	0.24	13.39	58.22
NGC 2281	102.702200	41.018871	6426.01	159.69	4.26	0.42	-0.06	0.16	16.77	66.18
NGC 2281	102.806860	40.531156	6083.83	205.57	4.03	0.55	-0.12	0.20	12.36	54.61
NGC 2281	103.135730	41.189861	6504.90	135.05	4.18	0.39	-0.21	0.14	18.65	67.31
NGC 2281	102.412670	41.102634	6340.61	172.75	4.27	0.44	-0.10	0.17	14.58	61.79
NGC 2281	102.231750	40.281033	5827.22	133.59	4.07	0.55	0.19	0.13	19.58	66.91
NGC 2281	102.266270	40.342583	6438.26	138.28	4.28	0.41	-0.10	0.14	13.21	57.62
NGC 2281	101.743210	40.931286	5631.32	239.44	3.89	0.62	0.15	0.23	15.40	63.79
NGC 2281	101.809490	40.787689	6738.41	145.67	4.14	0.37	-0.08	0.15	16.61	65.97
NGC 2281	102.148560	40.524019	6009.73	202.33	4.39	0.50	-0.05	0.20	12.41	54.79
NGC 2281	101.786440	40.741772	6154.74	189.34	4.37	0.48	-0.10	0.19	14.94	62.71
NGC 2281	101.960400	40.693352	5794.03	278.90	4.21	0.62	-0.28	0.30	16.25	65.42
NGC 2281	102.397290	40.670473	5673.58	224.63	4.55	0.49	0.05	0.23	22.01	62.98
NGC 2281	102.467720	40.462625	5879.04	231.12	4.45	0.53	-0.45	0.28	21.36	64.41
NGC 2281	102.179440	40.987133	6547.09	161.74	4.21	0.40	-0.10	0.16	15.82	64.65
NGC 2281	102.167130	40.863426	6415.89	167.12	4.22	0.41	-0.12	0.16	14.09	60.41
NGC 2281	101.866300	40.399224	5959.55	191.01	4.34	0.52	-0.01	0.19	21.41	64.31
NGC 2281	101.738870	40.422829	7371.46	192.35	4.07	0.37	-0.12	0.21	10.07	45.43
NGC 2281	101.703880	40.406596	6495.88	134.77	4.23	0.40	-0.08	0.14	9.14	41.47
NGC 2281	102.095050	41.004191	7142.58	135.69	4.11	0.32	-0.25	0.16	16.77	66.18
NGC 2281	101.910810	40.995750	6893.40	153.19	4.15	0.35	-0.13	0.17	20.71	65.58
NGC 2281	102.151410	41.057018	6712.42	131.45	4.28	0.36	-0.04	0.14	16.79	66.20
NGC 2281	102.582700	40.929646	6567.61	201.17	4.23	0.40	-0.26	0.21	9.15	41.51
NGC 2281	102.623250	40.837951	6864.65	227.79	4.14	0.35	-0.21	0.25	12.78	56.13
NGC 2281	102.702200	41.018871	6427.35	172.11	4.24	0.42	-0.09	0.17	15.74	64.50
NGC 2281	103.124420	41.144979	6248.89	112.10	4.10	0.47	-0.17	0.12	18.07	67.24
NGC 2281	102.326330	41.199657	6141.25	206.50	4.11	0.53	0.01	0.19	11.88	52.79
NGC 2281	101.540220	40.836105	6362.16	211.19	4.18	0.47	-0.13	0.21	9.91	44.75
NGC 2281	101.809490	40.787689	6729.40	136.34	4.14	0.37	-0.11	0.15	15.26	63.47
NGC 2281	101.692760	40.657871	5854.63	150.70	4.22	0.53	0.04	0.15	12.75	56.03
NGC 2281	102.165360	40.696370	5834.42	208.19	4.58	0.49	0.01	0.22	14.64	61.95
NGC 2281	102.064120	40.600841	6178.87	297.35	3.96	0.59	0.02	0.26	15.96	64.92
NGC 2281	102.658210	40.441067	6110.90	161.14	4.22	0.51	-0.18	0.17	9.81	44.33
NGC 2281	102.115930	40.816713	6017.14	197.61	4.30	0.51	-0.11	0.20	19.78	66.74
NGC 2281	102.319090	40.867396	5986.62	196.35	4.31	0.52	-0.04	0.19	15.52	64.05
NGC 2281	102.017410	40.782662	6065.65	235.69	4.36	0.52	-0.10	0.24	14.75	62.23
NGC 2281	102.536960	40.700256	5561.77	139.51	4.48	0.48	-0.00	0.16	19.92	66.60
NGC 2281	102.093800	40.845478	6409.50	198.81	4.32	0.43	-0.04	0.19	17.83	67.13
NGC 2281	101.866300	40.399222	5954.57	200.56	4.35	0.53	-0.05	0.20	22.09	62.78
NGC 2281	101.297900	40.533741	6086.98	230.75	3.84	0.61	0.07	0.21	16.97	66.42
NGC 2281	101.911920	41.014595	4713.60	140.32	2.57	0.51	-0.30	0.19	17.77	67.10
NGC 2281	102.062460	41.185097	5608.19	174.75	4.58	0.49	-0.06	0.20	26.17	48.83
NGC 2281	101.957650	40.864937	5834.80	209.57	4.59	0.49	0.13	0.20	15.53	64.07
NGC 2281	102.838460	40.829808	6306.72	216.73	4.13	0.49	-0.48	0.25	19.98	66.54
NGC 2281	102.623250	40.837951	6782.90	266.27	4.11	0.40	-0.36	0.32	24.67	54.71
NGC 2281	102.725800	40.898345	6370.96	289.70	4.18	0.49	-0.40	0.33	20.72	65.56
NGC 2281	102.834480	40.794192	8075.71	91.34	3.95	0.32	-0.28	0.13	16.99	66.44
NGC 2281	102.485800	40.893688	6479.79	199.55	4.20	0.43	-0.14	0.20	23.50	58.76
NGC 2281	101.948160	41.085709	6365.41	253.81	4.24	0.48	-0.09	0.25	16.61	65.97
NGC 2281	102.041910	40.986094	7247.51	134.69	4.08	0.39	-0.13	0.17	16.37	65.61
NGC 2281	102.129270	40.959583	7028.39	150.88	4.12	0.38	-0.09	0.18	25.02	53.40
NGC 2281	102.184800	41.053352	5914.40	198.34	4.32	0.55	-0.08	0.20	16.42	65.69
NGC 2281	102.777580	41.038877	5917.80	255.22	4.42	0.55	-0.01	0.26	21.77	63.54

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{km s}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2281	102.412670	41.102634	6343.25	200.18	4.24	0.47	-0.05	0.19	22.60	61.45
NGC 2281	102.327630	41.173773	6125.38	246.25	4.04	0.58	-0.06	0.23	15.25	63.45
NGC 2281	102.366820	41.437981	5928.65	204.57	4.07	0.68	0.02	0.21	13.74	59.34
NGC 2281	102.648280	41.331329	6093.37	168.41	4.24	0.49	-0.58	0.21	26.75	46.43
NGC 2281	102.489510	41.203298	5632.42	251.98	3.60	0.81	-0.72	0.31	21.79	63.49
NGC 2281	102.571360	41.624424	6856.66	110.64	4.13	0.34	-0.14	0.13	17.11	66.57
NGC 2281	101.932630	41.673907	6471.21	187.33	4.21	0.42	-0.17	0.19	20.59	65.76
NGC 2281	101.807590	41.624668	7432.79	103.61	3.86	0.38	0.53	0.09	19.71	66.80
NGC 2281	101.926140	41.350704	6077.13	252.77	4.06	0.58	0.12	0.22	13.87	59.74
NGC 2281	102.167040	41.424800	5840.39	160.70	4.44	0.51	-0.08	0.17	15.45	63.90
NGC 2281	101.934350	41.220572	5758.74	174.17	4.47	0.51	0.06	0.18	12.98	56.83
NGC 2281	102.120680	41.465482	5520.78	211.00	4.45	0.52	-0.03	0.23	13.33	58.02
NGC 2281	101.978720	41.388012	5896.10	152.36	3.94	0.62	-0.34	0.17	17.21	66.67
NGC 2281	102.618250	41.726890	5830.38	170.96	4.46	0.52	-0.18	0.19	20.46	65.95
NGC 2281	102.725800	40.898345	6837.07	381.99	4.26	0.39	-0.13	0.37	21.43	64.27
NGC 2281	102.319090	40.867396	5971.75	351.93	4.19	0.60	-0.03	0.33	14.78	62.31
NGC 2281	102.539660	40.566249	5920.08	342.27	4.29	0.58	-0.18	0.35	20.44	65.98
NGC 2281	102.652570	40.699422	6189.78	269.83	4.17	0.53	-0.12	0.26	18.89	67.27
NGC 2281	102.313420	40.942436	6415.62	239.33	4.12	0.47	-0.29	0.26	9.81	44.33
NGC 2281	102.168580	40.885408	5564.33	296.82	4.46	0.56	-0.08	0.33	26.96	45.54
NGC 2281	102.406250	41.013237	6643.37	181.61	4.14	0.41	-0.08	0.19	16.93	66.38
NGC 2281	102.327630	41.173773	6147.88	257.78	4.07	0.57	-0.03	0.24	15.48	63.96
NGC 2281	102.416320	41.450882	6185.23	183.58	4.36	0.47	0.03	0.17	17.14	66.60
NGC 2281	102.362690	41.337954	5134.93	182.14	3.66	0.59	-0.23	0.23	19.32	67.08
NGC 2281	102.326330	41.199657	6259.83	201.61	4.10	0.52	0.09	0.18	12.93	56.66
NGC 2281	102.489510	41.203298	5731.18	280.34	3.76	0.75	-0.53	0.32	24.03	57.00
NGC 2281	101.777500	41.493502	6599.41	131.23	4.19	0.38	-0.08	0.14	19.03	67.22
NGC 2281	102.923230	41.480371	6247.13	267.31	4.33	0.47	-0.15	0.26	10.10	45.55
NGC 2281	102.196260	41.479350	6191.88	193.88	4.28	0.48	-0.12	0.19	17.33	66.78
NGC 2281	102.177900	41.442102	6089.91	294.44	3.85	0.64	-0.14	0.28	9.68	43.77
NGC 2281	101.894930	41.287754	6111.15	203.79	4.37	0.50	-0.08	0.20	16.09	65.15
NGC 2281	102.015840	41.208984	7063.39	130.69	4.10	0.36	0.03	0.14	17.86	67.15
NGC 2281	102.258720	41.377775	5991.79	233.94	4.20	0.57	-0.11	0.23	23.44	58.96
NGC 2281	102.021410	41.324375	6051.85	210.96	4.31	0.54	-0.07	0.21	14.24	60.84
NGC 2281	102.626790	40.774241	5786.50	181.22	4.47	0.49	0.07	0.18	20.03	66.49
NGC 2281	102.834480	40.794192	8080.59	60.86	3.95	0.30	-0.26	0.10	11.88	52.79
NGC 2281	102.623250	40.837951	6602.33	293.36	4.26	0.40	-0.30	0.31	10.30	46.40
NGC 2281	103.135730	41.189861	6537.98	118.53	4.18	0.38	-0.20	0.13	21.68	63.74
NGC 2281	102.570750	41.238799	5535.47	194.07	4.24	0.54	0.10	0.20	25.03	53.36
NGC 2281	102.231750	40.281033	5712.31	183.86	3.90	0.60	0.12	0.18	20.28	66.19
NGC 2281	102.266270	40.342583	6420.41	126.95	4.28	0.40	-0.11	0.13	17.35	66.80
NGC 2281	101.634970	40.799515	6716.38	122.93	4.16	0.36	-0.08	0.13	16.11	65.18
NGC 2281	101.743210	40.931286	5579.17	285.77	3.84	0.62	0.17	0.28	20.16	66.34
NGC 2281	101.720120	40.864464	6277.27	273.07	4.43	0.44	-0.13	0.27	17.53	66.95
NGC 2281	101.698500	40.996882	6280.47	209.55	4.22	0.51	0.08	0.19	10.77	48.35
NGC 2281	102.148560	40.524019	6024.00	188.57	4.48	0.46	-0.02	0.19	10.36	46.65
NGC 2281	102.397290	40.670473	5582.42	196.32	4.47	0.51	-0.06	0.22	15.95	64.90
NGC 2281	102.369070	40.481613	6473.57	253.69	4.20	0.44	-0.24	0.26	25.87	50.06
NGC 2281	102.323480	40.641922	6307.22	135.17	4.31	0.43	-0.03	0.14	17.57	66.97
NGC 2281	102.570270	40.616226	6259.57	262.10	4.28	0.49	-0.31	0.28	21.91	63.21
NGC 2281	102.271810	40.756273	6068.65	163.94	4.34	0.47	-0.11	0.17	20.66	65.65
NGC 2281	102.179440	40.987133	6525.65	136.08	4.24	0.38	-0.10	0.14	16.43	65.70
NGC 2281	102.167130	40.863426	6441.92	136.13	4.26	0.37	-0.10	0.13	16.32	65.53
NGC 2281	102.013070	40.484303	5704.10	179.08	4.53	0.49	-0.16	0.20	9.10	41.30
NGC 2281	101.738870	40.422829	7263.29	235.46	4.10	0.36	-0.15	0.25	14.78	62.31
NGC 2281	101.910810	40.995750	6855.70	115.85	4.16	0.34	-0.15	0.13	20.75	65.51
NGC 2281	102.151410	41.057018	6763.63	119.80	4.25	0.35	-0.03	0.13	16.00	64.99
NGC 2281	102.582700	40.929646	6496.65	294.34	4.26	0.46	-0.26	0.32	9.43	42.71
NGC 2281	102.838460	40.829808	6362.23	297.82	4.21	0.46	-0.43	0.32	24.48	55.41

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2281	103.124420	41.144979	6219.78	154.16	4.07	0.49	-0.18	0.16	22.96	60.43
NGC 2281	101.484380	40.964073	5641.76	184.29	4.41	0.52	0.10	0.19	17.04	66.50
NGC 2281	101.461560	40.854130	6161.51	242.97	4.29	0.49	-0.54	0.29	26.77	46.34
NGC 2281	101.692760	40.657871	5886.47	177.28	4.38	0.49	0.05	0.17	20.66	65.65
NGC 2281	101.920570	40.719943	6072.21	317.32	4.15	0.58	-0.07	0.29	10.35	46.61
NGC 2281	102.165360	40.696370	5752.79	245.00	4.48	0.50	0.05	0.23	18.10	67.25
NGC 2281	102.658210	40.441067	6079.22	197.53	4.19	0.54	-0.19	0.20	18.68	67.31
NGC 2281	102.115930	40.816713	6036.80	253.56	4.37	0.48	-0.10	0.24	10.20	45.98
NGC 2281	101.968160	40.692978	6041.40	244.15	4.13	0.54	-0.67	0.29	15.50	64.00
NGC 2281	102.319090	40.867396	6033.70	196.99	4.48	0.46	-0.04	0.19	12.98	56.83
NGC 2281	102.017410	40.782662	6077.70	213.91	4.30	0.50	-0.10	0.21	22.17	62.58
NGC 2281	102.536960	40.700256	5578.59	155.31	4.53	0.46	0.04	0.17	24.34	55.91
NGC 2281	101.297900	40.533741	6142.40	296.34	4.13	0.54	0.03	0.26	13.46	58.45
NGC 2281	101.926320	41.120502	6525.78	201.51	4.18	0.43	-0.09	0.20	22.26	62.36
NGC 2281	101.965910	41.036186	6936.34	265.64	4.00	0.39	-0.17	0.28	21.59	63.93
NGC 2281	102.077220	41.110301	6068.17	356.72	4.16	0.64	-0.38	0.39	25.64	50.98
NGC 2420	114.525790	21.327881	5150.37	161.57	4.58	0.35	-0.34	0.24	73.72	53.87
NGC 2420	114.280640	21.138096	4859.27	147.08	3.09	0.54	-0.08	0.19	77.27	43.35
NGC 2420	114.597830	21.412432	4820.81	132.80	2.08	0.48	-0.26	0.20	71.66	58.42
NGC 2420	114.588110	21.528284	5119.95	173.76	2.78	0.71	-0.21	0.24	60.84	52.01
NGC 2420	114.624360	21.580786	4786.97	154.60	2.70	0.50	-0.13	0.21	75.54	48.79
NGC 2420	114.564540	21.633776	4770.76	143.76	2.32	0.53	-0.25	0.21	78.04	40.83
NGC 2420	114.075570	21.355200	4681.91	149.49	2.95	0.45	-0.09	0.20	56.88	39.70
NGC 2420	114.539020	21.380596	5178.74	187.02	3.79	0.60	-0.24	0.24	68.07	62.18
NGC 2420	114.929270	22.039253	4587.90	100.71	4.52	0.25	-0.25	0.15	60.09	49.88
NGC 2420	114.575950	21.535063	4877.60	176.44	2.42	0.65	-0.24	0.26	66.43	61.88
NGC 2420	115.194460	21.654678	6457.28	339.37	4.05	0.49	-0.22	0.43	56.50	38.43
NGC 2420	114.597830	21.412432	4949.13	115.51	2.35	0.62	-0.28	0.18	67.42	62.21
NGC 2420	114.588110	21.528284	5084.05	106.17	2.68	0.64	-0.24	0.16	69.20	61.63
NGC 2420	114.749670	21.534994	4863.46	126.50	2.64	0.55	-0.19	0.18	57.99	43.35
NGC 2420	114.358950	21.733826	4996.16	169.33	3.06	0.63	-0.29	0.23	64.35	59.67
NGC 2420	114.624360	21.580786	4782.83	107.27	2.64	0.56	-0.24	0.16	64.17	59.39
NGC 2420	114.075570	21.355200	4717.44	81.85	3.04	0.45	-0.14	0.12	58.08	43.64
NGC 2420	114.393570	21.394914	6177.05	175.88	4.21	0.49	-0.30	0.19	70.34	60.47
NGC 2420	114.749670	21.534994	4800.68	114.00	2.45	0.53	-0.23	0.17	58.89	46.23
NGC 2420	114.804360	21.870902	6468.67	190.54	4.13	0.43	-0.26	0.20	64.64	60.10
NGC 2420	114.413870	21.074094	6434.04	325.79	4.15	0.47	-0.49	0.36	72.00	57.77
NGC 2420	113.976290	21.514203	6122.17	292.05	4.33	0.53	-0.20	0.29	64.36	59.69
NGC 2420	114.507220	21.439131	6302.18	296.59	4.51	0.44	-0.12	0.29	61.27	53.17
NGC 2420	114.514650	21.154534	6301.50	378.83	4.27	0.48	-0.44	0.40	69.98	60.90
NGC 2420	114.840730	21.063693	5518.11	148.15	3.98	0.59	0.01	0.17	60.86	52.07
NGC 2420	114.644630	21.201614	6547.10	184.81	4.22	0.40	-0.35	0.21	71.22	59.18
NGC 2420	114.635760	21.275544	5046.64	120.55	3.39	0.59	-0.32	0.17	75.73	48.21
NGC 2420	114.201540	21.490991	6784.73	164.62	4.14	0.35	-0.30	0.19	69.17	61.65
NGC 2420	114.756580	21.517803	6453.42	199.77	4.16	0.42	-0.27	0.21	72.63	56.46
NGC 2420	114.564130	21.551779	6696.84	165.45	4.18	0.36	-0.26	0.18	72.19	57.39
NGC 2420	114.737340	21.682478	6749.04	154.08	4.16	0.35	-0.27	0.17	70.33	60.49
NGC 2420	114.606370	21.479325	6675.99	162.31	4.17	0.37	-0.24	0.18	69.98	60.90
NGC 2420	114.646950	21.510435	4618.23	79.06	2.48	0.55	-0.55	0.12	70.86	59.75
NGC 2420	114.688440	21.572622	6303.49	235.81	4.27	0.46	-0.29	0.25	67.57	62.22
NGC 2420	114.547170	21.666774	6226.70	228.66	4.30	0.47	-0.32	0.25	67.58	62.22
NGC 2420	114.609050	21.570251	6547.60	142.70	4.07	0.41	-0.20	0.15	61.98	54.96
NGC 2420	114.447390	21.620365	6269.62	232.86	4.17	0.49	-0.29	0.24	73.28	54.96
NGC 2420	114.894310	21.757585	5947.89	229.98	4.39	0.52	-0.58	0.29	78.46	39.43
NGC 2420	114.405450	21.827394	6184.39	206.83	4.47	0.45	-0.11	0.21	61.16	52.88
NGC 2420	114.510040	21.964181	6583.96	185.49	4.12	0.41	-0.18	0.19	56.58	38.70
NGC 2420	114.551360	21.821864	6739.93	171.94	4.16	0.36	-0.28	0.19	68.34	62.10
NGC 2420	114.210750	21.227084	5655.40	196.73	4.55	0.52	-0.53	0.27	63.13	57.51
NGC 2420	114.715860	21.037918	6029.06	158.55	4.30	0.50	-0.59	0.21	74.92	50.61

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 2420	114.387800	21.171185	6292.76	263.61	4.17	0.49	-0.44	0.29	61.85	54.64
NGC 2420	114.675040	21.402487	6437.86	252.21	4.25	0.45	-0.17	0.25	75.83	47.91
NGC 2420	114.281960	21.118613	5722.63	151.38	4.38	0.53	-0.24	0.18	60.75	51.76
NGC 2420	114.611560	21.318135	6483.21	216.07	4.19	0.42	-0.31	0.23	70.90	59.69
NGC 2420	114.152460	21.719994	5744.77	186.25	3.82	0.62	-0.14	0.19	70.67	60.03
NGC 2420	114.410720	21.580422	6532.60	149.56	4.08	0.41	-0.19	0.16	69.50	61.39
NGC 2420	114.980230	22.018918	4972.58	120.66	3.29	0.58	-0.42	0.17	74.15	52.74
NGC 2420	114.463850	21.543899	6728.58	163.86	4.15	0.36	-0.31	0.19	74.71	51.20
NGC 2420	114.571220	21.543386	6715.73	166.81	4.16	0.36	-0.30	0.19	68.50	62.04
NGC 2420	114.773590	21.645034	8036.26	116.20	4.17	0.30	0.40	0.10	60.48	51.00
NGC 2420	114.771510	21.684804	6733.52	176.25	4.18	0.35	-0.37	0.20	69.85	61.04
NGC 2420	114.618460	21.415072	6606.75	157.07	4.13	0.38	-0.29	0.17	69.61	61.28
NGC 2420	114.646330	21.545512	6761.50	153.88	4.15	0.35	-0.29	0.18	71.29	59.07
NGC 2420	114.708370	21.574781	6481.02	211.56	4.16	0.43	-0.29	0.23	67.73	62.22
NGC 2420	114.609910	21.732989	6735.98	163.08	4.11	0.37	-0.24	0.18	66.87	62.09
NGC 2420	114.565070	21.704807	4737.76	95.92	2.31	0.63	-0.62	0.16	66.96	62.12
NGC 2420	114.545810	21.481620	6720.84	163.55	4.15	0.36	-0.33	0.19	68.33	62.11
NGC 2420	114.593590	21.593378	6738.08	188.15	4.20	0.36	-0.28	0.21	66.34	61.82
NGC 2420	114.670820	21.450681	6772.01	264.54	4.22	0.35	-0.32	0.28	66.93	62.11
NGC 2420	114.507990	21.480633	6633.39	196.91	4.14	0.38	-0.29	0.21	67.50	62.22
NGC 2420	114.902340	21.699168	6599.11	212.30	4.16	0.40	-0.26	0.23	65.82	61.44
NGC 2420	114.913980	21.678215	5642.44	136.29	4.53	0.48	-0.20	0.17	58.14	43.84
NGC 2420	114.500730	21.930698	6596.61	210.04	4.27	0.39	-0.25	0.23	64.68	60.15
NGC 2420	114.345140	21.859145	6546.72	203.28	4.16	0.41	-0.21	0.21	67.48	62.22
NGC 2420	114.459740	21.981622	5975.24	177.06	4.54	0.47	-0.34	0.21	57.32	41.15
NGC 2420	114.266820	21.816976	6445.60	283.96	4.24	0.43	-0.24	0.28	62.35	55.83
NGC 2420	114.037930	21.573624	4842.53	123.54	2.55	0.61	-0.34	0.18	75.21	49.77
NGC 2420	114.597830	21.412432	4992.98	118.10	2.52	0.61	-0.23	0.18	69.12	61.69
NGC 2420	114.588110	21.528284	5024.96	108.97	2.60	0.63	-0.30	0.17	73.76	53.77
NGC 2420	114.625920	22.072626	4808.54	171.46	2.27	0.63	-0.26	0.26	77.25	43.42
NGC 2420	114.624360	21.580786	4803.05	98.44	2.57	0.57	-0.24	0.15	67.32	62.20
NGC 2158	92.296094	23.932759	4808.85	106.26	2.79	0.56	-0.27	0.15	29.20	17.23
NGC 2158	91.908619	24.494308	5038.68	135.87	2.48	0.66	-0.24	0.21	33.12	21.06
NGC 2158	91.585686	23.833548	4850.52	89.78	2.54	0.56	-0.15	0.13	34.08	20.54
NGC 2158	92.134872	23.882473	4954.26	115.87	2.56	0.65	-0.37	0.18	34.88	19.67
NGC 2158	91.958932	24.452797	4848.19	128.49	2.34	0.67	-0.47	0.20	36.79	16.35
NGC 2158	91.766353	23.602198	4828.83	83.97	2.64	0.55	-0.27	0.13	37.89	13.95
NGC 2158	92.373320	23.973331	4892.87	117.79	2.24	0.68	-0.55	0.20	31.93	20.86
NGC 2158	92.127824	24.300913	4735.54	67.97	4.62	0.26	0.21	0.09	34.74	19.85
NGC 2158	91.896518	24.348328	4972.67	150.74	3.18	0.64	-0.53	0.21	35.81	18.24
NGC 2158	92.228894	24.450813	6419.34	216.26	4.25	0.43	-0.15	0.22	32.03	20.91
NGC 2158	91.777123	24.354215	5449.99	242.58	4.00	0.72	-0.58	0.31	36.58	16.78
NGC 2158	92.237475	23.894997	4990.62	105.50	2.36	0.70	-0.53	0.18	27.19	12.87
NGC 2158	92.056111	24.032519	5054.60	100.39	2.67	0.62	-0.23	0.15	31.73	20.73
NGC 2158	92.332502	24.025997	5096.79	149.80	3.40	0.60	-0.23	0.20	27.18	12.84
NGC 2158	91.725309	24.418209	5077.82	116.40	2.57	0.70	-0.44	0.18	33.32	21.00
NGC 2158	91.653694	24.213499	5028.17	177.84	2.76	0.75	-0.59	0.26	33.50	20.92
NGC 869	34.117800	58.042900	4981.11	134.96	3.19	0.46	-0.07	0.18	-40.19	29.02
NGC 869	34.949205	56.692831	6442.26	291.32	4.21	0.50	0.14	0.25	-34.16	23.61
NGC 869	34.241207	57.021077	5589.07	241.20	4.36	0.48	-0.32	0.33	-33.70	22.05
NGC 869	34.635100	56.767500	7850.01	542.31	4.05	0.58	-0.18	0.81	-35.36	27.27
NGC 869	36.528535	56.988630	5956.98	271.83	3.73	0.52	-0.14	0.30	-33.47	21.24
NGC 869	34.981525	57.595201	5166.37	186.72	3.26	0.50	0.02	0.24	-33.45	21.17
NGC 869	34.461316	57.340433	6066.19	295.48	4.25	0.59	-0.12	0.29	-42.31	22.98
NGC 869	34.718200	57.086600	4961.10	209.72	2.82	0.58	-0.03	0.28	-35.21	26.85
NGC 869	32.988500	56.953400	4865.12	193.20	2.36	0.55	-0.40	0.28	-39.30	30.53
NGC 869	33.216900	56.591900	4323.39	86.87	2.62	0.34	-0.06	0.14	-40.10	29.21
NGC 869	33.738100	56.721600	6484.08	414.41	4.29	0.36	-0.11	0.45	-34.47	24.63
NGC 869	33.450500	57.025000	5853.73	274.91	4.31	0.57	-0.69	0.35	-33.44	21.14



(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{km s}^{-1}$ )	$P_c^{RV}$ (%)
NGC 869	34.121400	56.327400	6208.80	284.09	3.98	0.50	-0.25	0.34	-41.78	24.73
NGC 869	34.070100	58.081600	4708.13	105.14	2.17	0.40	-0.27	0.16	-38.63	31.14
NGC 869	36.199700	57.524800	6982.58	270.43	4.08	0.30	-0.02	0.30	-43.13	20.11
NGC 869	35.866700	57.114100	5836.82	277.63	4.03	0.63	-0.04	0.27	-35.45	27.50
NGC 869	35.857900	56.613600	5816.59	242.72	4.45	0.48	-0.12	0.30	-43.17	19.97
NGC 869	36.094162	56.539623	7807.28	399.80	3.23	0.89	0.06	0.43	-33.68	21.98
NGC 869	35.461300	57.724200	5993.99	186.61	3.61	0.48	0.17	0.18	-35.83	28.45
NGC 869	34.427600	57.337600	5677.55	163.29	4.50	0.43	-0.05	0.21	-40.06	29.29
NGC 869	34.293600	57.194700	8298.57	426.87	4.58	0.42	-0.50	0.72	-34.61	25.07
NGC 869	34.947300	57.291300	6290.96	278.97	4.23	0.43	-0.21	0.31	-33.52	21.42
NGC 869	34.713300	57.207700	6744.42	327.93	4.49	0.34	-0.14	0.40	-39.54	30.20
NGC 869	35.924100	57.825700	6160.14	252.69	4.38	0.44	-0.02	0.27	-42.65	21.81
NGC 869	34.880200	56.852800	6867.18	248.88	4.04	0.30	-0.07	0.28	-32.90	19.22
NGC 869	35.289900	56.970800	5341.27	187.09	4.11	0.41	0.08	0.24	-40.07	29.27
NGC 869	34.083700	57.736900	7847.09	278.92	3.69	0.37	0.12	0.25	-38.33	31.25
NGC 869	32.900000	56.764100	5442.90	149.19	4.45	0.36	0.20	0.18	-40.90	27.32
NGC 869	33.216900	56.591900	4356.65	68.71	2.32	0.41	-0.12	0.12	-38.26	31.26
NGC 869	34.191500	56.706100	6397.95	231.86	4.15	0.41	-0.17	0.26	-37.76	31.19
NGC 869	34.203700	56.816100	4647.93	97.91	2.60	0.47	-0.06	0.14	-41.18	26.55
NGC 869	33.260000	56.857800	5445.73	116.14	4.79	0.32	0.23	0.15	-37.37	30.94
NGC 869	34.557167	56.197674	5081.65	121.36	3.95	0.40	-0.01	0.17	-37.71	31.17
NGC 869	34.045100	57.225100	6340.04	179.39	4.27	0.42	-0.26	0.19	-36.51	29.83
NGC 869	32.838271	57.352485	5918.85	118.76	4.37	0.47	-0.17	0.14	-38.08	31.27
NGC 869	34.038200	57.462100	4950.42	130.61	3.41	0.48	-0.40	0.18	-35.68	28.09
NGC 869	33.505962	57.502926	8070.62	296.93	3.73	0.48	-0.21	0.29	-42.60	21.98
NGC 869	33.231000	57.746900	5404.46	189.40	3.65	0.68	-0.46	0.23	-36.52	29.85
NGC 869	36.493839	57.505726	8012.72	303.70	4.04	0.33	-1.58	0.55	-39.75	29.86
NGC 869	35.979452	57.848010	7182.69	143.64	4.06	0.34	-0.05	0.15	-41.46	25.72
NGC 869	35.281200	56.758900	7828.36	101.05	3.91	0.38	-0.28	0.19	-34.85	25.81
NGC 869	35.788370	57.083810	4191.70	42.73	1.78	0.38	-0.17	0.09	-40.49	28.35
NGC 869	35.264800	56.962000	4361.98	62.92	2.40	0.40	-0.01	0.11	-35.69	28.11
NGC 869	35.054554	56.258430	6499.17	195.47	4.17	0.43	-0.09	0.19	-38.19	31.27
NGC 869	35.055700	56.648700	5566.72	160.14	4.29	0.53	-0.07	0.18	-35.30	27.10
NGC 869	36.321300	57.376000	6268.84	174.94	3.78	0.53	-0.23	0.17	-41.67	25.07
NGC 869	36.557373	57.095547	8149.37	345.64	3.98	0.44	-0.46	0.44	-33.90	22.74
NGC 869	35.856950	56.746696	5071.84	110.74	3.36	0.57	-0.27	0.15	-43.18	19.94
NGC 869	35.857900	56.613600	5809.86	189.44	4.44	0.54	-0.06	0.20	-43.35	19.33
NGC 869	35.041500	57.851000	4812.50	105.52	2.92	0.49	-0.21	0.15	-34.02	23.14
NGC 869	34.370500	58.048600	4840.76	97.80	2.81	0.44	-0.15	0.14	-36.30	29.45
NGC 869	34.427600	57.337600	5512.57	147.97	4.34	0.55	-0.16	0.18	-41.15	26.63
NGC 869	34.718200	57.086600	4828.82	122.67	2.66	0.48	-0.08	0.17	-36.43	29.69
NGC 869	34.671500	58.186200	5081.36	178.47	3.06	0.58	-0.01	0.25	-37.37	30.94
NGC 869	35.169482	56.394097	7451.21	264.35	3.63	0.52	-0.15	0.31	-40.97	27.13
NGC 869	34.340122	56.110321	6305.21	231.88	4.16	0.50	-0.29	0.24	-33.79	22.36
NGC 869	36.453311	56.681937	6302.65	162.77	4.09	0.48	-0.07	0.15	-41.64	25.17
NGC 1662	71.911248	9.983484	5082.64	145.11	3.44	0.67	-0.67	0.20	-22.45	27.99
NGC 1662	72.375611	10.007223	5099.22	101.02	4.69	0.34	0.04	0.13	-14.96	34.28
NGC 1662	71.889668	10.083258	5048.69	66.76	4.73	0.31	0.07	0.09	-13.06	29.56
NGC 1662	72.216838	10.277847	5929.33	138.54	4.41	0.49	-0.08	0.15	-11.10	23.31
NGC 1662	72.010896	10.321052	5137.00	139.59	3.11	0.73	-0.57	0.20	-18.95	35.97
NGC 1662	72.979343	10.844076	6526.32	123.04	4.12	0.40	-0.16	0.13	-10.99	22.95
NGC 1662	72.937676	11.070449	5010.73	83.75	3.34	0.56	-0.48	0.12	-15.87	35.76
NGC 1662	72.335434	11.290170	6839.01	115.90	4.15	0.33	-0.25	0.14	-16.50	36.43
NGC 1662	72.285099	11.454593	6258.24	123.30	4.31	0.43	-0.20	0.14	-19.97	34.40
NGC 1662	72.267824	11.800604	5251.22	124.28	4.45	0.43	-0.18	0.16	-18.19	36.63
NGC 1662	72.547731	11.409189	6256.06	135.51	4.35	0.43	-0.14	0.14	-14.80	33.96
NGC 1662	72.679099	11.446041	4337.52	58.85	1.10	0.47	-1.14	0.12	-23.32	25.21
NGC 1662	72.722695	11.240865	4337.59	47.68	2.50	0.37	0.08	0.08	-19.79	34.73
NGC 1662	72.705825	11.175727	5716.90	133.87	4.30	0.49	0.32	0.13	-11.22	23.71

(Continued.)

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NGC 1662	72.263352	11.030858	5654.50	137.77	4.54	0.45	0.04	0.15	-16.96	36.71
NGC 1662	73.060710	10.824379	6008.72	127.32	4.23	0.51	-0.07	0.13	-22.81	26.86
NGC 1662	72.702084	10.668272	5686.71	156.58	3.74	0.67	-0.20	0.18	-24.09	22.65
NGC 1662	72.867360	10.706075	5910.16	121.62	4.45	0.48	-0.08	0.14	-23.12	25.86
NGC 1662	71.835793	11.400948	5401.32	120.55	4.31	0.42	0.37	0.13	-14.70	33.75
NGC 1662	71.783454	11.211317	5049.38	117.84	4.52	0.38	-0.15	0.16	-19.33	35.47
NGC 1662	71.770566	11.383077	4905.53	102.55	4.72	0.31	0.02	0.14	-22.98	26.31
NGC 1662	71.786363	10.641302	6426.60	101.30	4.25	0.41	-0.17	0.12	-20.89	32.38
NGC 1662	71.984472	10.474633	7000.67	120.15	4.11	0.33	-0.15	0.14	-11.31	24.01
NGC 1662	71.884215	10.744547	5263.31	145.86	4.33	0.49	-0.27	0.19	-18.50	36.42
NGC 1662	72.001100	10.985397	6757.00	129.59	4.10	0.37	-0.10	0.14	-15.68	35.50
NGC 1662	71.956769	11.073655	5705.83	137.55	4.46	0.50	-0.12	0.16	-17.57	36.83
NGC 1662	71.827163	10.972759	5013.02	97.95	4.68	0.34	-0.16	0.14	-11.68	25.24
NGC 1662	71.966703	10.784774	5720.20	139.09	4.37	0.52	-0.17	0.16	-15.92	35.82
NGC 1662	71.516026	10.792743	6198.14	135.34	4.11	0.49	-0.29	0.15	-17.85	36.78
NGC 1662	71.391631	10.875944	6153.27	150.88	4.17	0.49	-0.15	0.15	-14.46	33.23
NGC 1662	72.254452	10.562302	5959.99	167.48	4.24	0.54	0.08	0.16	-21.92	29.59
NGC 1662	72.278403	10.674394	5366.86	120.11	4.53	0.45	-0.10	0.15	-19.17	35.70
NGC 1662	71.696812	10.631991	6336.96	118.12	4.24	0.42	-0.22	0.13	-17.77	36.80
NGC 1662	71.503045	10.589197	5547.38	101.92	4.44	0.47	0.04	0.12	-15.98	35.90
NGC 1662	72.294675	10.747889	6361.79	114.42	4.18	0.43	-0.21	0.13	-18.30	36.57
NGC 1662	72.180436	10.842197	6729.40	102.77	4.18	0.36	-0.22	0.13	-17.49	36.83
NGC 1662	72.174843	10.898344	5951.21	136.90	4.19	0.55	-0.23	0.15	-23.95	23.12
NGC 1662	72.208527	10.959457	5391.15	146.36	4.09	0.59	-0.33	0.19	-20.13	34.08
NGC 1662	72.379293	10.737160	6673.14	110.82	4.19	0.37	-0.22	0.13	-18.27	36.59
NGC 1662	72.059500	10.942358	5732.96	114.54	4.35	0.53	-0.18	0.14	-13.36	30.42
NGC 1662	72.242406	10.909223	5640.44	137.04	4.29	0.56	-0.24	0.17	-17.54	36.83
NGC 1662	71.933997	11.115909	6907.44	98.36	4.18	0.34	-0.15	0.12	-17.77	36.80
NGC 1662	72.085946	11.373911	6213.55	107.31	3.85	0.53	0.19	0.10	-18.12	36.67
NGC 1662	72.041109	11.595618	4961.04	94.43	4.61	0.34	-0.15	0.14	-16.23	36.18
NGC 1662	71.925118	11.676241	5755.33	135.74	4.32	0.54	-0.00	0.15	-15.33	34.95
NGC 1662	72.375611	10.007223	5100.14	94.52	4.75	0.33	0.12	0.12	-15.29	34.88
NGC 1662	71.889668	10.083258	5041.30	58.58	4.71	0.31	0.07	0.08	-15.18	34.69
NGC 1662	72.010896	10.321052	5136.89	117.65	3.13	0.72	-0.57	0.17	-17.40	36.83
NGC 1662	73.097775	10.872462	5786.85	135.98	3.85	0.64	-0.31	0.16	-12.45	27.71
NGC 1662	73.059944	11.047680	4465.62	55.78	2.15	0.47	-0.33	0.10	-11.04	23.11
NGC 1662	72.587327	11.678936	6538.50	90.23	4.21	0.37	-0.22	0.11	-18.72	36.22
NGC 1662	72.222823	11.226493	3896.18	29.53	4.72	0.16	-0.89	0.16	-14.06	32.28
NGC 1662	72.285099	11.454593	6291.60	119.84	4.32	0.42	-0.18	0.13	-20.27	33.80
NGC 1662	72.353921	11.396542	6359.96	125.66	4.26	0.41	-0.13	0.13	-18.51	36.41
NGC 1662	72.248791	11.804789	5949.27	115.06	4.37	0.48	-0.15	0.13	-18.49	36.43
NGC 1662	72.806863	11.505460	7188.54	60.03	4.00	0.40	0.06	0.09	-16.12	36.06
NGC 1662	72.698665	11.485056	4705.78	64.29	2.77	0.47	-0.19	0.10	-18.94	35.98
NGC 1662	72.679099	11.446041	4323.75	52.85	1.05	0.46	-1.16	0.11	-24.06	22.75
NGC 1662	72.722695	11.240865	4328.01	42.87	2.52	0.37	0.02	0.07	-20.90	32.36
NGC 1662	72.263352	11.030858	5597.23	127.19	4.46	0.49	-0.01	0.14	-16.82	36.65
NGC 1662	72.435588	11.036949	6628.06	97.48	4.17	0.36	-0.19	0.11	-11.35	24.15
NGC 1662	72.867360	10.706075	5872.46	109.96	4.40	0.49	-0.11	0.13	-23.25	25.44
NGC 1662	72.732055	10.749916	5692.79	124.29	4.45	0.49	-0.11	0.14	-13.07	29.59
NGC 1662	71.676856	11.147351	7302.53	82.22	3.95	0.37	0.21	0.09	-16.44	36.38
NGC 1662	71.883926	11.376021	6376.54	152.75	4.12	0.44	-0.17	0.16	-19.69	34.90
NGC 1662	71.713280	11.331694	8058.61	73.57	4.01	0.39	-0.31	0.13	-21.04	32.01
NGC 1662	71.784358	11.104308	6258.06	109.78	3.97	0.49	-0.18	0.12	-16.96	36.71
NGC 1662	71.747594	10.516444	5929.16	124.83	4.10	0.55	-0.25	0.14	-12.92	29.15
NGC 1662	71.984472	10.474633	7042.27	140.09	4.07	0.34	-0.14	0.16	-14.98	34.32
NGC 1662	71.884215	10.744547	5299.81	107.08	4.50	0.43	-0.14	0.14	-16.56	36.47
NGC 1662	72.014568	11.027751	6171.52	105.42	4.32	0.45	-0.16	0.12	-11.81	25.66
NGC 1662	71.966703	10.784774	5783.19	129.85	4.47	0.50	-0.20	0.16	-13.78	31.56
NGC 1662	71.782088	10.790874	5978.37	144.44	3.93	0.56	0.10	0.14	-18.14	36.66

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 1662	71.871250	10.845804	5388.92	133.57	4.42	0.47	-0.14	0.17	-15.51	35.24
NGC 1662	71.516026	10.792743	6216.57	129.44	4.06	0.49	-0.30	0.14	-12.95	29.24
NGC 1662	71.242736	10.931058	5995.60	150.92	4.01	0.57	-0.22	0.16	-13.96	32.03
NGC 1662	71.469332	10.950884	6380.55	184.32	4.13	0.44	-0.39	0.20	-14.01	32.15
NGC 1662	72.078915	10.433102	5193.13	105.47	4.78	0.35	-0.01	0.14	-15.38	35.03
NGC 1662	72.223725	10.711718	7498.81	43.81	4.05	0.22	0.00	0.07	-18.10	36.68
NGC 1662	72.406117	10.567348	6185.66	160.72	3.97	0.54	-0.51	0.20	-21.53	30.71
NGC 1662	71.696812	10.631991	6354.92	113.05	4.25	0.41	-0.21	0.13	-13.94	31.98
NGC 1662	71.503045	10.589197	5564.25	84.59	4.48	0.45	0.06	0.10	-13.45	30.67
NGC 1662	72.180436	10.842197	6742.27	98.32	4.18	0.35	-0.21	0.12	-16.43	36.37
NGC 1662	72.095553	10.887249	6685.82	245.33	4.08	0.52	-0.32	0.34	-13.42	30.59
NGC 1662	72.186904	11.017842	6335.47	120.33	4.25	0.44	-0.26	0.14	-23.72	23.89
NGC 1662	72.222790	10.873846	4657.99	88.35	4.18	0.35	-0.64	0.15	-21.02	32.06
NGC 1662	72.242406	10.909223	5678.45	123.25	4.36	0.53	-0.17	0.15	-13.45	30.67
NGC 1662	72.007496	11.369425	6512.03	132.32	4.19	0.41	-0.13	0.14	-19.10	35.79
NGC 1662	72.060315	11.544138	5700.30	126.49	4.35	0.54	-0.43	0.17	-19.76	34.78
NGC 1662	71.924654	11.834868	6350.36	126.61	4.13	0.45	-0.36	0.15	-17.88	36.77
NGC 1662	72.041109	11.595618	4919.43	82.24	4.61	0.32	-0.06	0.12	-11.14	23.45
NGC 1662	72.058329	11.874449	5587.74	117.48	3.96	0.58	-0.05	0.14	-13.91	31.90
NGC 1662	71.981988	11.881414	6163.15	122.78	4.33	0.46	-0.21	0.14	-13.65	31.22
NGC 1662	71.669274	11.690538	4883.87	95.79	2.42	0.60	-0.34	0.15	-13.20	29.97
Basel 11B	89.827967	21.945993	6265.79	126.52	4.37	0.44	0.23	0.12	14.29	25.64
Basel 11B	89.490065	22.011530	6622.55	122.78	4.13	0.41	0.15	0.12	13.80	25.61
Basel 11B	89.522623	21.806949	6661.91	217.47	4.25	0.39	-0.18	0.23	16.06	24.30
Basel 11B	89.577343	21.895648	6054.26	180.64	4.44	0.50	-0.38	0.22	15.66	24.79
Basel 11B	89.292132	21.951198	6188.12	251.55	4.29	0.51	-0.53	0.31	9.67	19.33
Basel 11B	89.597625	21.663683	6369.69	118.95	4.26	0.43	-0.19	0.14	17.34	22.11
Basel 11B	89.654990	21.811411	5002.83	107.14	2.74	0.57	0.05	0.15	19.08	18.03
Basel 11B	89.784703	21.802008	5116.33	110.68	2.71	0.66	-0.08	0.16	8.21	15.57
Basel 11B	89.581110	21.695662	6767.75	140.69	4.05	0.38	-0.20	0.16	18.94	18.39
Basel 11B	89.720114	22.217554	6672.65	158.00	4.16	0.36	-0.25	0.17	14.64	25.55
Basel 11B	89.827967	21.945993	6161.50	122.31	4.40	0.45	0.22	0.11	12.36	24.54
Basel 11B	89.429770	22.008882	6482.00	220.15	4.32	0.42	-0.12	0.21	14.89	25.43
Basel 11B	89.688731	22.112389	7577.55	177.12	4.02	0.30	-0.23	0.20	17.18	22.43
Basel 11B	89.610621	21.932765	6280.12	232.08	4.28	0.46	-0.16	0.23	11.16	22.63
Basel 11B	89.475011	21.929053	5656.36	234.64	4.25	0.56	0.08	0.23	15.95	24.44
Basel 11B	89.368914	21.716750	6281.12	204.38	4.20	0.46	-0.06	0.19	11.39	23.06
Basel 11B	89.331769	22.263396	8327.48	187.33	4.24	0.31	-0.18	0.20	9.26	18.30
Basel 11B	89.355292	22.000149	6928.87	157.76	4.05	0.35	-0.28	0.19	16.84	23.07
Basel 11B	89.401948	21.750887	5946.16	248.95	4.01	0.65	-0.86	0.33	18.49	19.51
Basel 11B	89.676736	21.994272	6417.14	197.71	4.02	0.48	-0.04	0.18	17.28	22.23
Basel 11B	89.657689	22.289745	6103.55	142.42	4.31	0.48	-0.04	0.14	10.02	20.17
Basel 11B	89.605151	22.183477	8356.98	254.88	3.89	0.47	-0.43	0.33	17.07	22.64
Basel 11B	89.809871	21.959685	5459.47	189.71	4.58	0.46	0.14	0.21	14.63	25.55
Basel 11B	89.782060	22.094829	5480.14	280.13	3.82	0.67	-0.06	0.30	16.89	22.98
NGC 1528	63.034572	50.605066	5618.55	140.34	4.50	0.47	0.09	0.15	-5.56	38.47
NGC 1528	63.140950	51.325039	8184.37	232.84	3.88	0.52	-0.29	0.31	-21.18	51.61
NGC 1528	63.201344	51.399010	6152.57	202.68	4.36	0.46	-0.34	0.22	-10.76	49.64
NGC 1528	63.001376	51.526060	5276.83	126.74	4.51	0.31	0.33	0.16	-18.87	54.02
NGC 1528	62.919667	51.832681	6089.04	133.42	3.97	0.53	0.05	0.13	-16.98	54.80
NGC 1528	62.507895	51.502203	7391.30	185.71	3.87	0.40	0.35	0.16	-29.20	34.64
NGC 1528	62.602086	51.381956	5800.31	195.59	4.36	0.54	-0.06	0.20	-23.70	47.40
NGC 1528	63.777350	50.728330	6372.38	198.29	4.01	0.46	-0.06	0.18	-13.33	53.14
NGC 1528	63.954947	50.648846	8310.18	118.16	3.87	0.44	-0.41	0.17	-21.01	51.84
NGC 1528	63.373358	50.795109	7556.74	158.52	3.77	0.46	0.04	0.18	-11.07	50.15
NGC 1528	62.661066	50.979636	7225.59	152.68	3.94	0.38	0.33	0.14	-7.14	42.27
NGC 1528	63.536641	51.099405	8113.72	257.28	4.08	0.43	-0.11	0.32	-27.12	39.82
NGC 1528	63.248474	50.447681	5585.96	171.03	3.56	0.53	-0.26	0.21	-3.51	33.33
NGC 1528	63.710686	50.545232	5824.48	139.82	4.41	0.47	0.36	0.13	-27.48	38.94

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{km s}^{-1}$ )	$P_c^{RV}$ (%)
NGC 1528	64.069229	51.902206	7075.28	224.20	4.08	0.39	-0.08	0.25	-4.69	36.31
NGC 1528	63.380903	51.965803	7433.79	242.84	3.99	0.52	-0.01	0.31	-15.54	54.64
NGC 1528	63.338633	51.737190	7115.16	173.53	4.30	0.33	-1.04	0.37	-10.64	49.44
NGC 1528	64.445559	51.688574	7559.77	207.68	3.81	0.32	0.28	0.20	-3.77	33.99
NGC 1528	64.983453	51.527415	5924.27	181.71	4.38	0.53	-0.16	0.20	-24.53	45.72
NGC 1528	64.816854	51.482347	6417.50	266.42	4.26	0.39	0.12	0.24	-15.72	54.70
NGC 1528	64.221392	51.302700	7412.43	180.19	4.14	0.38	-0.02	0.19	-12.22	51.84
NGC 1528	64.395091	51.238705	5759.00	210.41	3.85	0.64	0.13	0.20	-26.29	41.80
NGC 1528	64.292703	51.385076	6194.42	134.95	4.28	0.47	-0.17	0.15	-23.79	47.23
NGC 1528	64.506328	51.080560	6866.82	146.24	4.11	0.35	-0.12	0.16	-9.95	48.20
NGC 1528	64.515206	50.969761	6604.02	176.97	4.05	0.45	0.13	0.16	-8.90	46.14
NGC 1528	63.872327	51.099125	7728.65	93.51	4.08	0.28	-0.09	0.15	-21.75	50.79
NGC 1528	64.025948	51.155567	7168.04	257.58	4.19	0.39	-0.08	0.28	-16.03	54.77
NGC 1528	63.968889	51.218306	7042.06	195.53	4.30	0.34	-0.11	0.21	-10.11	48.50
NGC 1528	65.159326	51.126118	6376.28	174.86	4.22	0.39	-0.07	0.19	-14.89	54.35
NGC 1528	65.130995	51.334892	6664.57	231.63	4.23	0.45	-0.09	0.28	-28.12	37.36
NGC 1528	64.817809	51.274849	7079.13	221.18	4.03	0.37	-0.30	0.27	-18.15	54.45
NGC 1528	64.413332	50.643627	8392.04	618.57	3.83	0.39	-0.15	0.56	-12.81	52.57
NGC 1528	64.053436	50.829598	7254.06	217.79	3.94	0.40	-0.30	0.28	-19.11	53.84
NGC 1528	63.034572	50.605066	5596.73	178.44	4.38	0.49	0.09	0.18	-6.52	40.81
NGC 1528	62.930232	51.517844	7981.90	255.27	3.47	0.79	-0.25	0.41	-12.93	52.71
NGC 1528	62.738233	51.486459	6032.12	177.73	4.38	0.43	0.02	0.20	-9.54	47.42
NGC 1528	63.429433	50.660566	8133.73	255.99	3.66	0.68	-0.26	0.41	-25.09	44.52
NGC 1528	62.685850	51.108568	7600.75	165.76	3.90	0.46	0.17	0.17	-14.41	54.06
NGC 1528	63.389053	51.198526	6634.89	192.37	4.05	0.39	-0.27	0.20	-22.26	49.99
NGC 1528	63.062677	51.853288	8081.88	249.25	3.38	0.51	0.27	0.19	-18.18	54.44
NGC 1528	62.931133	51.846400	5899.79	189.64	4.38	0.52	0.21	0.17	-18.82	54.06
NGC 1528	63.833194	51.484176	7063.12	213.79	4.11	0.29	-0.05	0.24	-20.50	52.48
NGC 1528	64.330571	51.552171	5671.94	186.57	4.72	0.37	0.15	0.22	-13.24	53.05
NGC 1528	64.830148	51.644040	6794.21	235.69	4.14	0.39	-0.09	0.23	-22.91	48.88
NGC 1528	64.816854	51.482347	7101.04	265.68	4.62	0.27	0.20	0.27	-5.58	38.52
NGC 1528	65.032731	51.073760	8450.69	326.05	3.24	0.85	-0.54	0.40	-7.21	42.43
NGC 1528	64.978332	50.996983	6789.82	204.11	4.16	0.32	-0.53	0.26	-3.90	34.32
NGC 1528	64.936968	50.754994	6913.52	223.22	4.26	0.29	-0.10	0.25	-21.34	51.39
NGC 1528	64.220249	51.302498	7629.03	286.07	4.16	0.35	-0.06	0.28	-12.17	51.77
NGC 1528	64.118074	51.185915	7296.60	177.16	3.69	0.46	0.29	0.17	-12.50	52.20
NGC 1528	63.803141	51.229332	7792.19	257.23	4.02	0.32	0.27	0.21	-12.03	51.59
NGC 1528	63.925862	51.181937	8090.69	261.78	4.23	0.57	-0.16	0.45	-9.10	46.55
NGC 1528	63.865221	51.095403	5371.20	209.03	3.61	0.67	-0.02	0.28	-20.87	52.02
NGC 1528	63.497027	51.262476	6524.59	237.04	4.14	0.35	-0.14	0.25	-11.64	51.03
NGC 1528	64.784914	51.201997	7581.52	216.17	4.05	0.41	-0.10	0.28	-9.87	48.05
NGC 1528	65.250043	51.375768	7527.95	279.83	3.98	0.29	-0.56	0.34	-25.90	42.70
NGC 1528	64.946522	51.270381	6950.43	206.80	4.17	0.29	-0.16	0.24	-29.33	34.32
NGC 1528	64.526343	50.785590	7692.51	252.05	3.92	0.43	-0.19	0.32	-7.96	44.13
NGC 1528	64.849882	50.686155	7375.21	230.68	3.89	0.34	-0.12	0.28	-24.33	46.14
NGC 1528	64.377320	50.838326	6778.29	244.87	4.17	0.37	-0.12	0.24	-5.62	38.62
NGC 1528	63.859756	50.535259	7586.76	169.12	4.01	0.38	-0.06	0.17	-10.44	49.09
NGC 1528	63.887509	50.907083	8302.11	278.09	3.86	0.51	-0.16	0.31	-19.07	53.88
NGC 1528	64.742911	50.731175	6230.38	224.99	4.10	0.55	0.20	0.19	-9.33	47.01
NGC 1528	62.838893	50.555065	5917.15	147.41	4.32	0.52	-0.11	0.16	-23.66	47.48
NGC 1528	62.536533	51.249285	8163.63	260.74	3.67	0.58	-0.43	0.30	-19.43	53.58
NGC 1528	62.661066	50.979636	7503.50	206.39	3.35	0.36	0.43	0.18	-11.45	50.75
NGC 1528	63.909855	51.304497	8367.92	240.52	3.65	0.69	-0.25	0.32	-16.81	54.82
NGC 1528	64.221392	51.302700	6962.50	211.75	4.10	0.37	-0.10	0.23	-14.40	54.05
NGC 1528	64.021454	51.428061	7016.88	230.17	4.00	0.48	0.01	0.28	-24.59	45.60
NGC 1528	64.084918	51.629745	7186.59	250.23	4.29	0.35	-0.21	0.28	-29.07	34.97
NGC 1528	65.203641	51.040322	7290.25	276.02	4.05	0.40	0.29	0.24	-9.22	46.79
NGC 1528	64.515206	50.969761	6728.51	261.11	4.06	0.43	0.20	0.22	-8.42	45.13
NGC 1528	64.118074	51.185915	7281.47	156.13	3.67	0.46	0.20	0.16	-16.48	54.82

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Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 1528	64.506328	51.080560	6893.68	167.76	4.08	0.37	-0.09	0.18	-14.23	53.93
NGC 1528	64.254957	51.057915	8212.73	152.00	4.03	0.33	-0.27	0.18	-14.10	53.83
NGC 1528	63.123323	51.497587	6475.27	334.39	4.42	0.41	0.09	0.28	-15.93	54.75
NGC 1528	62.856542	51.828805	8268.77	297.18	3.60	0.58	0.25	0.30	-6.92	41.75
NGC 1528	65.049549	51.518939	6592.19	176.76	4.23	0.40	-0.01	0.17	-25.31	44.04
NGC 1528	63.761443	51.913137	5747.85	135.85	4.50	0.50	-0.06	0.15	-16.74	54.82
NGC 1528	63.265428	51.709373	7020.73	184.33	4.14	0.34	-0.12	0.20	-3.83	34.14
NGC 1528	63.043432	51.840956	5950.47	179.29	4.13	0.57	-0.32	0.20	-10.64	49.44
NGC 1528	64.321456	51.470950	6025.22	224.78	4.00	0.58	-0.63	0.28	-28.58	36.21
NGC 1528	64.570260	51.196621	6017.86	223.63	4.34	0.60	-0.31	0.24	-4.34	35.43
NGC 1528	64.404589	51.319081	6001.98	149.02	4.16	0.55	-0.17	0.16	-16.00	54.77
NGC 1528	64.245095	51.374939	7806.02	129.31	3.61	0.49	0.11	0.13	-18.17	54.44
NGC 1528	63.813060	51.795520	7130.22	145.38	4.01	0.42	0.01	0.18	-16.57	54.82
NGC 1528	63.986989	51.363984	8030.05	119.51	3.91	0.37	-0.16	0.18	-25.00	44.72
NGC 1528	64.428536	51.881324	7909.78	102.02	3.93	0.32	-0.26	0.17	-18.55	54.23
NGC 1528	64.830148	51.644040	6798.68	128.20	4.18	0.36	-0.17	0.15	-17.48	54.71
NGC 1528	63.292705	51.645391	6586.56	222.34	4.12	0.42	-0.04	0.21	-18.53	54.25
NGC 1528	63.203090	51.923107	5954.73	144.22	4.32	0.52	-0.15	0.16	-26.16	42.10
NGC 1528	63.255366	51.737112	7032.03	208.47	4.11	0.38	-0.04	0.22	-13.24	53.05
NGC 1528	64.559958	51.416594	6981.33	149.06	4.16	0.34	-0.11	0.17	-27.62	38.60
NGC 1528	64.395091	51.238705	5772.84	221.13	4.10	0.59	0.20	0.20	-15.35	54.57
NGC 1528	64.628507	51.285275	6937.53	145.61	4.04	0.37	0.02	0.14	-8.32	44.91
NGC 1528	63.888285	51.794056	7247.99	178.81	4.06	0.38	0.13	0.18	-7.84	43.86
NGC 1528	64.004677	51.731261	5764.93	160.68	4.46	0.52	-0.09	0.18	-24.57	45.64
NGC 1528	64.209026	51.413277	5524.80	125.63	4.62	0.45	-0.01	0.15	-14.46	54.09
NGC 1528	64.252685	51.786264	7050.25	179.07	4.04	0.41	-0.03	0.22	-17.86	54.58
NGC 1528	64.816854	51.482347	6322.57	168.31	4.25	0.46	-0.02	0.16	-10.97	49.99
NGC 1528	63.306010	51.759853	6502.37	218.75	4.23	0.41	-0.10	0.21	-12.95	52.73
NGC 1528	64.570260	51.196621	6099.64	201.68	4.45	0.48	-0.07	0.20	-3.97	34.49
NGC 1528	63.719681	51.608506	5715.25	138.58	4.45	0.51	0.04	0.15	-9.23	46.81
NGC 1528	63.728996	51.554582	6066.56	191.75	4.17	0.55	0.22	0.17	-6.40	40.52
NGC 1528	64.299279	51.391960	6140.90	103.60	4.19	0.49	0.06	0.10	-14.45	54.09
NGC 1528	64.369420	51.816218	6838.46	188.98	4.32	0.35	-0.09	0.20	-25.74	43.07
NGC 2252	98.930380	5.152903	6219.63	188.83	4.14	0.49	-0.48	0.22	20.33	33.21
NGC 2252	98.985825	5.222874	5256.94	144.55	4.59	0.43	-0.56	0.22	17.95	39.66
NGC 2252	98.850453	5.548567	5739.80	150.78	3.96	0.58	0.04	0.15	16.15	38.60
NGC 2252	98.820632	5.722006	7440.93	165.88	3.78	0.41	0.28	0.15	22.21	24.32
NGC 2252	99.043793	5.350558	5907.43	168.47	4.15	0.57	-0.48	0.20	19.87	35.02
NGC 2252	98.847457	5.065764	6377.57	165.80	4.12	0.43	-0.24	0.17	16.21	38.72
NGC 2252	98.644915	5.364101	7301.73	124.80	3.96	0.36	-0.04	0.14	12.68	24.77
NGC 2252	98.434418	5.558917	6209.67	201.10	4.44	0.46	-0.17	0.20	15.02	35.36
NGC 2252	98.293062	5.460651	6372.53	149.91	4.28	0.42	-0.07	0.15	14.03	31.30
NGC 2252	98.820632	5.722006	7506.97	171.99	3.93	0.39	0.25	0.16	20.78	31.25
NGC 2252	98.956684	5.629732	5960.12	128.08	4.27	0.50	-0.10	0.14	17.92	39.68
NGC 2252	99.015426	5.361409	6802.30	129.27	4.15	0.33	-0.34	0.15	13.04	26.57
NGC 2252	98.458792	5.406733	7752.39	112.16	4.14	0.30	0.36	0.12	18.92	37.99
NGC 2252	98.653042	5.594372	6367.77	218.14	4.45	0.41	-0.17	0.22	22.06	25.07
NGC 2252	98.539904	5.608861	6326.71	214.49	4.25	0.44	-0.07	0.20	16.82	39.63
NGC 2252	98.327349	5.509962	7747.37	214.08	4.06	0.32	-0.19	0.22	14.80	34.54
NGC 2252	98.289216	5.185804	4850.69	123.46	3.67	0.42	0.11	0.15	15.15	35.81
NGC 2252	98.597323	5.577243	5924.39	154.21	4.48	0.48	-0.01	0.16	16.26	38.82
NGC 2252	98.611359	5.199224	7283.17	60.76	4.01	0.28	0.13	0.12	18.05	39.55
NGC 2252	98.611822	5.261390	6025.01	124.75	4.22	0.51	0.05	0.12	21.16	29.48
NGC 2252	98.757410	5.403709	6847.79	160.55	4.12	0.36	-0.37	0.20	15.22	36.05
NGC 2252	98.710370	5.634348	5752.56	146.75	4.82	0.41	-0.05	0.17	16.35	38.98
NGC 2252	98.820632	5.722006	7444.73	202.32	3.98	0.39	0.24	0.18	21.75	26.61
Basel 4	87.106774	30.060051	8418.59	344.93	3.73	0.88	-0.20	0.57	-6.20	50.12
Basel 4	87.190755	30.389117	5875.11	196.10	4.34	0.45	-0.27	0.30	-13.16	50.46
Basel 4	87.423045	30.160732	5796.42	186.14	4.13	0.49	-0.38	0.25	-5.36	48.97

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{km s}^{-1}$ )	$P_c^{RV}$ (%)
Basel 4	87.369621	30.065449	7990.85	492.44	4.18	0.45	-0.23	0.48	-7.61	51.55
Basel 4	87.375979	30.151598	6410.34	347.87	3.91	0.49	-0.29	0.33	-9.63	52.41
Basel 4	87.288413	30.088133	7124.56	291.34	3.57	0.59	-0.12	0.28	-9.58	52.41
Basel 4	87.382622	30.027723	8201.87	356.18	4.16	0.42	-0.12	0.45	-17.95	41.81
Basel 4	87.203098	30.351834	6309.47	394.41	4.38	0.46	-0.59	0.45	-15.28	47.34
Basel 4	87.252355	30.064671	6068.33	461.62	4.27	0.58	-0.35	0.58	-0.17	38.13
Basel 4	87.352311	30.032990	7562.01	329.15	4.04	0.36	-0.16	0.37	-2.01	42.55
Basel 4	87.384637	30.161549	5962.82	155.73	4.40	0.51	-0.09	0.17	-3.67	46.06
Basel 4	87.426274	30.066956	8057.52	220.00	4.02	0.41	-0.34	0.26	-9.75	52.42
Basel 4	87.308014	30.431325	5304.34	200.61	4.47	0.51	-0.29	0.27	-17.95	41.81
Basel 4	87.459406	30.243712	7734.62	226.38	4.01	0.40	-0.08	0.27	-13.39	50.18
Basel 4	87.409457	30.183801	6060.15	160.44	4.23	0.51	-0.24	0.17	-7.29	51.28
Basel 4	87.308462	30.295763	6866.68	150.85	4.03	0.34	-0.08	0.19	-14.21	49.07
Basel 4	87.070046	30.123357	5950.74	181.99	4.38	0.53	-0.17	0.20	-15.41	47.11
Basel 4	87.276745	30.232190	6522.78	224.85	4.01	0.45	-0.35	0.26	-21.02	34.13
Basel 4	87.023459	30.139632	6621.40	202.21	4.13	0.39	-0.27	0.22	-1.93	42.37
Basel 4	87.357476	30.200734	6341.68	179.50	4.17	0.45	-0.47	0.21	-11.91	51.64
Basel 4	87.208317	30.248882	5661.90	197.64	4.38	0.55	-0.00	0.21	1.87	32.85
Basel 4	87.402801	30.382102	7008.67	212.24	4.03	0.41	-0.15	0.27	-1.32	40.95
Basel 4	87.251878	30.095928	6905.56	241.78	4.04	0.41	-0.15	0.27	-12.05	51.53
Basel 4	87.357476	30.200734	6303.55	221.02	4.19	0.47	-0.47	0.26	-18.15	41.35
Basel 4	87.213690	30.054307	6940.11	178.28	4.17	0.37	-0.09	0.20	-14.82	48.12
Basel 4	87.078460	30.313199	7148.60	179.20	4.13	0.30	-0.29	0.24	-8.38	52.05
Basel 4	87.306608	30.417210	6123.79	190.34	4.21	0.52	-0.16	0.19	-4.84	48.16
Basel 4	87.357476	30.200734	6366.31	154.80	4.21	0.40	-0.43	0.18	-10.86	52.22
Basel 4	87.402801	30.382102	6998.51	184.66	4.08	0.39	-0.11	0.23	-0.64	39.30
NGC 1960	84.607411	33.930568	5594.63	281.09	4.38	0.57	0.03	0.30	14.00	35.24
NGC 1960	84.328996	33.731922	5829.70	189.17	4.49	0.49	-0.15	0.21	1.24	24.16
NGC 1960	84.363059	33.820545	5848.96	150.66	4.25	0.55	-0.22	0.17	1.90	25.25
NGC 1960	84.307191	33.703795	6660.25	134.35	4.17	0.38	-0.07	0.14	11.39	35.40
NGC 1960	84.432771	33.762950	5655.63	307.19	3.67	0.69	-0.41	0.37	4.55	29.35
NGC 1960	83.983292	33.684204	6920.46	173.18	3.65	0.43	0.06	0.17	8.55	33.92
NGC 1960	84.018580	34.050564	7931.53	216.15	3.94	0.43	-0.14	0.23	8.75	34.08
NGC 1960	83.761850	34.201543	6630.29	153.56	4.23	0.38	-0.16	0.17	5.79	31.02
NGC 1960	83.639291	34.468276	6143.38	148.09	4.33	0.48	-0.10	0.15	7.43	32.90
NGC 1960	83.891241	34.005361	6843.68	166.74	4.14	0.37	-0.23	0.20	12.09	35.50
NGC 1960	83.760956	33.753127	5509.92	155.46	4.71	0.44	0.03	0.18	11.36	35.40
NGC 1960	83.799000	34.030032	5315.01	154.42	4.61	0.42	-0.03	0.18	1.68	24.89
NGC 1960	83.561809	33.877522	5567.58	257.03	3.04	0.96	-0.77	0.39	5.60	30.78
NGC 1960	83.666877	33.912104	5764.54	203.54	4.30	0.52	0.44	0.17	3.77	28.20
NGC 1960	84.659258	34.026278	6657.26	194.28	4.20	0.37	-0.33	0.22	1.45	24.51
NGC 1960	84.377550	34.227176	6284.81	194.22	4.27	0.46	-0.49	0.23	21.25	27.89
NGC 1960	84.217303	33.790256	6165.01	255.70	4.35	0.49	-0.39	0.29	16.11	34.04
NGC 1960	84.189580	33.703778	7659.61	240.13	3.95	0.34	0.13	0.23	2.28	25.87
NGC 1960	84.078291	34.170084	5693.69	346.40	4.02	0.57	0.02	0.32	17.18	33.10
NGC 1960	83.636493	34.222019	5490.42	288.13	3.18	0.92	-0.34	0.39	9.95	34.86
NGC 1960	83.850788	33.845312	6031.60	275.64	3.97	0.60	-0.42	0.30	6.84	32.27
NGC 1960	83.876036	33.790228	6573.77	181.63	4.04	0.34	-0.41	0.24	22.20	26.40
NGC 1960	83.760539	34.026565	5778.31	183.87	4.63	0.48	0.25	0.18	16.05	34.09
NGC 1960	83.599943	33.868058	6377.46	230.79	3.96	0.53	-0.11	0.23	19.88	29.88
NGC 1960	84.215307	33.817196	5766.49	169.38	4.59	0.43	0.02	0.18	8.91	34.20
NGC 1960	84.487284	33.935892	5868.75	166.16	4.19	0.57	-0.24	0.18	21.89	26.90
NGC 1960	83.919932	34.114101	5891.09	217.39	3.67	0.62	-0.30	0.23	10.07	34.92
NGC 1960	83.948382	34.247272	7463.00	258.07	4.03	0.41	-0.26	0.31	16.55	33.68
NGC 1960	83.477352	34.285671	5048.85	114.08	4.79	0.33	0.11	0.15	15.34	34.58
NGC 1960	83.842540	34.098478	4745.87	181.28	3.20	0.61	-0.54	0.26	24.11	23.26
NGC 1960	83.848062	34.278758	6701.58	180.81	4.19	0.37	-0.25	0.20	2.07	25.53
NGC 1960	83.848463	33.847855	6300.27	269.36	4.45	0.47	-0.33	0.32	21.92	26.85
NGC 1960	83.883521	33.799219	5076.54	135.07	4.51	0.40	-0.10	0.18	4.62	29.45

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 1960	83.903142	33.870165	5616.51	222.03	3.36	0.79	-0.18	0.26	19.38	30.56
NGC 1960	84.137326	33.920103	6151.48	282.15	3.97	0.56	-0.28	0.30	7.71	33.18
NGC 1960	83.518572	33.973217	6533.12	180.79	4.26	0.38	-0.28	0.19	1.56	24.69
NGC 6205	250.418656	36.495620	5013.61	229.08	2.39	1.08	-1.56	0.35	-251.91	99.94
NGC 6205	250.582717	36.496116	4912.08	255.31	1.82	1.04	-1.64	0.44	-252.49	99.85
NGC 6205	250.513907	36.486697	4702.89	237.78	1.54	1.07	-1.81	0.39	-249.57	99.88
NGC 6205	250.179108	36.461619	4494.87	119.48	0.97	0.66	-1.69	0.23	-250.19	99.96
Waterloo 2	82.305699	40.450184	6477.90	171.61	4.08	0.42	-0.27	0.18	-10.29	42.64
Waterloo 2	82.463569	40.459766	6768.64	131.73	4.20	0.33	-0.42	0.16	-12.96	40.37
Waterloo 2	82.355672	40.128863	7740.43	266.99	4.16	0.36	-0.26	0.30	5.14	29.76
Waterloo 2	81.874426	40.146561	7117.67	191.43	3.84	0.46	-0.02	0.23	-19.83	29.95
Waterloo 2	82.269982	40.217556	6843.17	129.05	4.10	0.39	0.09	0.14	-4.01	42.32
Waterloo 2	81.968555	40.271219	6513.07	141.50	4.29	0.41	-0.02	0.15	1.42	36.06
Waterloo 2	82.278206	40.599714	6871.45	173.93	4.00	0.42	0.04	0.19	-12.15	41.20
Waterloo 2	82.247909	40.657280	6972.29	132.46	4.07	0.35	-0.10	0.15	-9.84	42.88
Waterloo 2	81.587553	40.538755	6208.63	200.44	3.96	0.54	-0.15	0.20	-7.92	43.48
Waterloo 2	81.769263	40.256119	8223.33	101.54	3.82	0.36	-0.33	0.14	-14.35	38.71
Waterloo 2	81.864887	40.428225	7185.00	297.47	3.87	0.65	-0.17	0.46	3.74	32.24
Waterloo 2	82.387694	40.491208	6817.43	239.03	4.18	0.36	-0.21	0.25	3.67	32.36
Waterloo 2	82.383421	40.533047	6135.51	186.93	4.20	0.49	-0.47	0.21	-4.16	42.42
Waterloo 2	81.678877	40.196473	5176.06	382.04	4.10	0.57	-0.10	0.41	-12.77	40.58
Waterloo 2	81.913180	40.098784	5562.32	194.43	4.38	0.52	-0.16	0.22	-19.60	30.36
Waterloo 2	82.069933	40.235064	6763.62	193.94	4.01	0.37	-0.11	0.19	-11.98	41.35
Waterloo 2	81.939060	40.289696	5734.56	141.32	3.91	0.57	0.19	0.14	-1.49	39.99
Waterloo 2	81.872236	40.495946	5705.03	137.77	4.44	0.51	-0.12	0.16	-14.43	38.61
Waterloo 2	81.777800	40.482740	6091.86	218.89	4.19	0.55	-0.23	0.23	-15.94	36.47
Waterloo 2	81.738949	40.441362	5690.67	255.50	4.13	0.65	-0.12	0.27	-16.92	34.94
Waterloo 2	81.798326	40.127211	7465.59	264.15	4.04	0.46	0.10	0.29	-20.17	29.33
Waterloo 2	81.674143	40.570437	7056.15	235.19	3.80	0.31	-0.04	0.25	-8.09	43.46
Waterloo 2	82.342863	40.427659	6236.22	206.12	3.93	0.47	-0.08	0.22	-14.78	38.14
Waterloo 2	82.287598	40.503500	5641.86	151.77	4.56	0.40	-0.08	0.20	-4.63	42.71
Waterloo 2	82.203370	40.504730	7995.76	210.78	3.98	0.42	-0.17	0.25	-8.91	43.27
Waterloo 2	82.136327	40.442312	6027.12	198.35	4.36	0.43	0.32	0.18	6.75	26.83
Waterloo 2	81.939060	40.289696	5703.90	197.97	3.81	0.60	0.12	0.18	6.35	27.56
Waterloo 2	82.128273	40.297640	6308.44	174.32	4.15	0.41	0.05	0.17	5.60	28.93
Waterloo 2	82.293954	40.353171	5681.38	158.56	4.12	0.42	0.14	0.18	3.46	32.73
Waterloo 2	81.908925	40.362400	6593.98	184.40	4.15	0.40	-0.34	0.21	-5.47	43.12
Waterloo 2	82.218929	40.283401	7318.55	265.40	4.12	0.38	-0.07	0.28	-3.21	41.70
Waterloo 2	82.269982	40.217556	6899.41	230.31	4.04	0.45	0.16	0.23	0.40	37.56
Waterloo 2	82.258692	40.559071	6109.80	190.89	4.13	0.57	-0.31	0.22	-20.76	28.26
Waterloo 2	82.043983	40.189243	5551.13	135.43	4.71	0.44	0.14	0.15	-9.85	42.88
Waterloo 2	81.957684	40.029042	5813.60	178.66	4.66	0.34	-0.22	0.20	-1.42	39.91
Waterloo 2	81.875105	40.054102	7336.37	253.54	4.52	0.34	-0.15	0.27	-7.66	43.50
Waterloo 2	82.068298	40.321204	5829.37	206.64	4.14	0.62	0.19	0.20	-17.48	34.03
Waterloo 2	81.908925	40.362400	6362.74	152.40	4.14	0.45	-0.39	0.19	-1.38	39.86
Waterloo 2	82.218929	40.283401	7399.07	230.52	3.87	0.44	-0.02	0.25	-9.14	43.19
Waterloo 2	82.217456	40.249294	6127.51	195.92	4.56	0.47	0.02	0.18	-4.56	42.67
Waterloo 2	82.269982	40.217556	6911.69	189.66	4.02	0.44	0.13	0.20	-0.41	38.67
Waterloo 2	82.245278	40.177693	7608.05	294.76	3.66	0.51	0.23	0.29	6.78	26.77
Waterloo 2	82.221450	40.053588	7311.82	234.60	3.86	0.40	-0.10	0.25	-15.24	37.50
Waterloo 2	81.927926	40.689473	5597.07	270.19	3.90	0.70	0.09	0.29	4.43	31.03
Waterloo 2	82.334580	40.498806	7224.53	260.39	4.11	0.38	-0.24	0.29	-21.07	27.69
Waterloo 2	82.279072	40.558179	5880.81	214.66	4.29	0.67	-0.42	0.27	-5.15	42.98
Waterloo 2	82.216404	40.307877	5996.94	290.73	4.15	0.64	-0.03	0.29	-18.95	31.51
NGC 6819	295.200083	40.135694	4583.40	103.40	2.54	0.47	0.05	0.14	-0.47	51.77
NGC 6819	295.559417	40.236278	5652.80	216.01	4.37	0.55	-0.10	0.24	7.36	59.36
NGC 6819	295.201292	40.041361	7377.70	200.71	3.83	0.43	0.47	0.17	-5.62	37.11
NGC 6819	295.477792	40.024528	5010.44	198.75	2.32	0.68	-0.23	0.29	-3.65	43.12
NGC 6819	295.148708	40.084389	4423.43	162.28	1.33	0.53	-0.59	0.26	1.90	56.56



(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 6819	295.272875	39.938583	5980.06	336.39	3.60	0.77	-0.39	0.36	-0.91	50.70
NGC 6819	295.659458	40.455167	4983.62	148.90	3.51	0.51	-0.07	0.19	7.92	58.93
NGC 6819	295.369792	40.464472	4488.90	64.05	4.68	0.21	-0.64	0.12	9.05	57.67
NGC 6819	295.445208	40.340694	5280.74	177.06	3.58	0.60	-0.04	0.21	3.54	58.71
NGC 6819	295.206917	40.242028	4763.15	151.04	2.82	0.54	-0.23	0.20	7.09	59.52
NGC 6819	295.431125	40.439472	5953.69	198.99	4.15	0.54	0.27	0.17	-3.36	43.98
NGC 6819	295.376208	40.256056	4834.36	98.08	2.67	0.49	0.07	0.14	-4.32	41.10
NGC 6819	295.077042	40.406722	6669.79	147.76	4.21	0.35	-0.21	0.16	5.61	59.84
NGC 6819	295.174042	40.329583	6336.74	160.90	3.82	0.52	0.01	0.15	8.70	58.11
NGC 6819	295.481958	40.264639	4678.38	118.67	2.48	0.60	-0.51	0.18	12.62	50.66
NGC 6819	295.082792	40.461861	4841.31	106.39	2.45	0.56	-0.23	0.16	-0.37	52.01
NGC 6819	295.133875	40.527417	4857.06	111.97	2.67	0.52	0.08	0.15	1.18	55.30
NGC 6819	295.434417	40.097972	4617.24	101.75	2.49	0.47	0.04	0.14	0.99	54.94
NGC 6819	295.277417	40.172111	5785.81	251.99	3.31	0.73	-0.01	0.26	-3.22	44.39
NGC 6819	295.373083	40.205861	4763.99	122.67	2.67	0.53	0.04	0.17	-0.18	52.45
NGC 6819	295.554458	40.169417	5299.65	198.73	3.77	0.68	-0.37	0.25	11.59	53.09
NGC 6819	295.376292	40.150167	4060.62	28.87	1.91	0.37	0.01	0.07	-0.83	50.90
NGC 6819	295.245542	40.103583	5891.63	198.11	4.37	0.51	-0.10	0.21	7.80	59.03
NGC 6819	295.496500	40.137278	6076.09	185.56	4.22	0.54	-0.10	0.20	4.74	59.59
NGC 6819	295.476583	40.036056	5050.75	186.31	2.72	0.70	-0.22	0.24	-3.75	42.82
NGC 6819	295.757675	40.123164	4663.82	58.43	2.69	0.45	-0.15	0.09	-1.23	49.89
NGC 6819	295.523000	39.832333	6717.36	172.49	4.08	0.41	-0.11	0.18	3.90	59.04
NGC 6819	295.217458	39.910028	6285.88	173.60	4.26	0.59	0.14	0.18	12.26	51.55
NGC 6819	295.383750	39.866444	6199.22	197.51	4.12	0.54	-0.04	0.19	-2.73	45.81
NGC 6819	295.473875	39.860389	4424.13	91.74	2.02	0.46	-0.05	0.14	6.67	59.71
NGC 6819	295.508583	40.466611	4883.54	66.90	2.75	0.47	0.11	0.10	13.92	47.23
NGC 6819	295.486708	40.357722	5092.80	122.34	4.41	0.36	0.42	0.14	-1.78	48.45
NGC 6819	295.480667	40.535361	5452.11	155.04	4.63	0.46	-0.27	0.20	-1.51	49.16
NGC 6819	295.393292	40.296750	4137.16	25.82	1.86	0.35	0.08	0.06	-1.64	48.82
NGC 6819	295.328083	40.535028	6773.76	172.81	4.10	0.39	0.06	0.17	-5.35	37.94
NGC 6819	295.429208	40.058139	6243.66	246.11	3.96	0.56	0.12	0.21	0.99	54.94
NGC 6819	295.291417	40.151556	5166.86	176.65	3.53	0.56	0.08	0.20	9.19	57.47
NGC 6819	295.231708	40.190861	5765.71	291.15	3.34	0.73	-0.10	0.29	-1.23	49.89
NGC 6819	295.335792	40.204722	6500.66	231.46	4.02	0.46	0.08	0.21	-5.79	36.58
NGC 6819	295.547917	40.194028	6300.32	212.99	4.39	0.45	-0.28	0.24	3.58	58.75
NGC 6819	295.236792	40.067250	6436.41	248.97	3.99	0.49	0.13	0.20	0.33	53.59
NGC 6819	295.466354	39.874931	5283.77	237.38	3.89	0.66	-0.22	0.29	0.82	54.60
NGC 6819	295.554458	40.169417	5266.80	171.44	3.58	0.67	-0.37	0.22	11.71	52.83
NGC 6819	295.434417	40.097972	4631.19	71.36	2.70	0.45	0.05	0.10	-1.44	49.35
NGC 6819	295.318000	40.097472	4867.37	88.99	2.76	0.51	0.05	0.12	0.41	53.76
NGC 6819	295.201617	40.178944	6497.06	203.11	4.12	0.42	-0.17	0.20	11.00	54.35
NGC 6819	295.393500	40.146167	4805.28	74.66	2.61	0.48	0.05	0.11	-0.86	50.83
NGC 6819	295.201204	40.041667	7339.25	173.71	3.76	0.42	0.41	0.15	2.38	57.30
NGC 6819	295.339500	40.232583	4779.25	80.79	2.62	0.48	0.07	0.12	-2.04	47.74
NGC 6819	295.388792	40.209722	4682.09	72.96	2.71	0.47	0.01	0.10	1.80	56.40
NGC 6819	294.996533	39.892639	4527.79	86.73	3.00	0.41	-0.06	0.12	-1.32	49.66
NGC 6819	295.544375	39.952556	6073.87	229.24	3.88	0.59	0.01	0.20	-5.21	38.38
NGC 6819	294.905408	40.153503	5962.15	215.83	4.43	0.54	0.09	0.21	1.64	56.13
NGC 6819	295.305000	40.249083	4165.09	33.40	2.00	0.40	-0.06	0.07	-4.57	40.34
NGC 6819	295.138875	40.494389	4385.69	82.58	2.13	0.49	-0.32	0.14	-0.30	52.17
NGC 6819	295.486708	40.357722	5128.58	123.16	4.55	0.36	0.47	0.14	-0.98	50.53
NGC 6819	295.079208	40.509694	4428.33	54.17	2.39	0.43	-0.19	0.09	5.48	59.83
NGC 6819	295.651083	40.220194	4594.27	69.95	2.54	0.44	0.04	0.10	-2.18	47.36
NGC 6819	295.477792	40.024528	5107.14	133.34	2.77	0.66	-0.19	0.19	0.90	54.76
NGC 6819	295.363792	40.081889	4719.23	102.23	2.53	0.48	0.01	0.14	5.08	59.73
NGC 6819	295.233417	40.227667	4931.56	117.02	3.24	0.50	0.07	0.15	-2.31	46.99
NGC 6819	295.564500	40.115750	5745.68	173.20	4.03	0.59	0.20	0.17	15.80	41.76
NGC 6819	295.360792	40.194944	4444.20	56.81	2.19	0.42	0.05	0.09	-5.85	36.40
NGC 6819	295.348708	40.209861	4220.83	37.90	2.12	0.39	0.02	0.08	3.51	58.68

(Continued.)

Cluster	RA (deg)	Dec (deg)	$T_{\text{eff}}$ (K)	$T_{\text{eff}}$ Err. (K)	$\log g$ (dex)	$\log g$ Err. (dex)	[Fe/H] (dex)	[Fe/H] Err. (dex)	RV ( $\text{kms}^{-1}$ )	$P_c^{RV}$ (%)
NGC 6819	295.296000	40.186583	4933.69	76.44	2.35	0.50	0.07	0.12	-0.15	52.52
NGC 6819	294.888250	40.088956	4803.07	99.58	2.62	0.49	0.11	0.14	-1.80	48.39
NGC 6819	294.936587	40.085858	6338.34	202.72	4.06	0.50	0.05	0.18	-3.48	43.63
NGC 6819	295.073317	39.965142	5044.26	179.45	3.12	0.64	-0.23	0.24	7.76	59.07
NGC 6819	295.107308	40.013222	4741.74	133.65	3.00	0.49	-0.23	0.18	2.31	57.19
NGC 6819	295.547125	39.861750	6638.89	119.59	4.10	0.39	0.01	0.12	17.12	37.71
NGC 6819	294.833933	40.289347	6415.93	191.58	4.14	0.46	-0.13	0.20	-1.80	48.39
NGC 6819	295.452417	40.477444	4809.45	95.07	2.62	0.52	0.05	0.13	3.70	58.86
NGC 6819	295.251042	40.339925	5765.13	229.21	4.12	0.67	-0.68	0.30	4.45	59.43
NGC 6819	295.369792	40.464472	4434.98	65.24	4.59	0.23	-0.77	0.13	15.40	42.96
NGC 6819	295.174042	40.329583	6183.80	239.33	3.89	0.59	-0.29	0.25	10.09	56.07
NGC 6819	295.480667	40.535361	5453.64	127.08	4.69	0.43	-0.30	0.17	5.90	59.86
NGC 6819	295.339500	40.232583	4797.71	103.62	2.44	0.46	0.14	0.14	0.02	52.90
NGC 6819	295.388792	40.209722	4633.98	102.26	2.52	0.45	0.06	0.14	3.09	58.22
NGC 6819	295.544375	39.952556	6041.72	315.73	3.92	0.61	0.07	0.27	14.91	44.41
NGC 6819	294.877358	40.233153	5299.39	213.45	3.68	0.67	-0.22	0.26	-4.64	40.13
NGC 5272	205.711848	28.466048	4643.73	288.94	1.42	1.12	-1.79	0.47	-153.27	80.77
NGC 5272	205.764840	28.383458	4230.02	72.04	0.71	0.44	-1.37	0.14	-150.08	65.90
NGC 5272	205.630851	28.381766	4499.19	197.05	1.19	0.77	-1.48	0.37	-152.11	75.60
NGC 5272	205.550218	28.440692	4211.37	64.45	0.73	0.41	-1.34	0.12	-152.20	76.01
NGC 5272	205.672917	28.318907	4105.06	52.83	0.68	0.32	-1.10	0.13	-155.06	87.90
NGC 5272	205.609500	28.313327	4507.27	250.51	0.92	0.91	-2.09	0.41	-149.28	61.96
NGC 5272	205.633223	28.450724	4502.35	158.24	1.11	0.76	-1.61	0.29	-158.72	97.82
NGC 5272	205.490031	28.376418	4728.08	210.65	1.48	1.03	-1.71	0.37	-157.11	94.35
NGC 5272	205.630851	28.381766	4425.84	162.08	1.02	0.71	-1.55	0.30	-157.23	94.66
NGC 5272	205.549885	28.422522	4753.26	226.68	1.69	1.05	-1.54	0.38	-154.84	87.09
Berkeley 71	85.181913	32.345741	6766.15	156.60	4.05	0.42	-0.01	0.18	-19.67	48.69
Berkeley 71	85.200012	32.170180	5558.47	181.23	4.46	0.54	-0.22	0.22	-32.52	67.46
Berkeley 71	85.158997	32.083138	5780.73	169.51	4.16	0.59	0.01	0.18	-27.95	69.30
Berkeley 71	85.081991	32.318408	6681.52	160.62	4.14	0.40	-0.27	0.19	-29.01	69.85
Berkeley 71	85.080894	32.155812	4834.08	93.96	2.67	0.51	-0.05	0.13	-40.35	44.65
Berkeley 71	85.082473	32.378637	6419.90	213.40	4.22	0.44	-0.13	0.21	-28.31	69.55
Berkeley 71	85.146704	32.461668	5840.73	255.81	4.42	0.57	-0.36	0.30	-21.55	55.21
Berkeley 71	85.050708	32.470222	5899.92	225.96	4.38	0.56	-0.68	0.31	-25.27	65.43
Berkeley 71	85.408457	32.046130	5138.84	285.36	2.83	0.74	-0.75	0.36	-26.62	67.81
Berkeley 71	85.121836	32.183061	4379.38	71.33	4.63	0.20	-0.16	0.12	-19.01	46.30
Berkeley 71	85.166979	32.207892	5506.28	175.12	4.74	0.45	-0.24	0.23	-33.04	66.59
Berkeley 71	85.437297	32.267752	4977.05	131.30	2.49	0.61	-0.24	0.19	-21.41	54.74
Berkeley 71	84.955897	32.385117	3916.49	42.33	4.72	0.19	-1.13	0.24	-24.56	63.85
Berkeley 71	85.362727	32.490048	5086.10	241.82	2.83	0.72	-0.43	0.29	-25.74	66.35
Berkeley 71	85.280317	32.499904	4896.71	156.53	2.28	0.69	-0.48	0.26	-20.34	51.08
Berkeley 71	85.011902	32.194527	4742.86	124.70	3.00	0.51	-0.29	0.17	-24.78	64.36
Berkeley 71	85.017600	32.421809	4894.41	169.89	2.65	0.66	-0.63	0.24	-37.68	54.14
Berkeley 71	85.422678	32.137704	4767.25	125.01	2.67	0.53	-0.24	0.17	-25.78	66.42
Berkeley 71	85.240984	32.482380	6019.85	236.97	3.76	0.68	-0.49	0.27	-18.86	45.75
Berkeley 71	85.283637	32.449554	5492.72	239.41	4.60	0.48	0.02	0.27	-29.55	69.90
Berkeley 71	85.255409	32.517894	4110.05	63.59	4.30	0.24	-0.40	0.16	-22.83	59.22
Berkeley 71	85.189879	32.335686	6501.33	215.26	3.87	0.52	-0.01	0.20	-31.73	68.55
Berkeley 71	85.370832	32.377845	4972.84	143.17	2.24	0.72	-0.56	0.24	-22.83	59.22
Berkeley 71	85.509143	32.184613	4431.14	60.61	4.59	0.20	0.02	0.10	-29.82	69.86
Berkeley 71	85.171007	32.497174	5750.58	187.17	4.36	0.54	-0.00	0.20	-20.51	51.67
Berkeley 71	85.410701	32.430132	4043.76	43.86	4.50	0.21	-0.38	0.14	-20.12	50.30
Berkeley 32	104.372870	6.529741	4696.29	86.00	2.28	0.53	-0.16	0.13	86.73	69.54
Berkeley 32	104.598490	6.550131	5191.04	157.55	2.62	0.75	-0.40	0.26	92.31	81.16
Berkeley 32	104.448460	6.395810	4593.13	187.03	2.13	0.56	-0.51	0.26	102.11	89.31
Berkeley 32	104.521470	6.383659	4377.03	78.70	2.08	0.50	-0.36	0.14	97.95	88.13
Berkeley 32	104.460680	6.436646	4755.85	155.04	2.21	0.63	-0.56	0.23	107.53	85.54
Berkeley 32	104.449640	6.396503	4831.24	247.40	2.86	0.53	-0.19	0.33	105.10	87.95
Berkeley 32	104.584290	6.558685	4610.34	100.89	2.37	0.61	-0.46	0.15	92.56	81.58

(Continued.)

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Berkeley 32	104.595400	6.440354	4754.90	157.18	2.06	0.66	-0.69	0.25	102.48	89.24
Berkeley 32	104.565160	6.661328	4689.84	128.77	2.62	0.50	0.07	0.17	93.41	82.96
Berkeley 32	104.472260	6.468322	4967.29	172.90	2.46	0.73	-0.35	0.26	101.13	89.36
Berkeley 32	104.420290	6.455301	4531.41	194.33	2.39	0.61	-0.30	0.29	92.16	80.90
Berkeley 32	104.461400	6.592075	4793.36	152.54	2.43	0.59	-0.11	0.21	101.98	89.33
Berkeley 32	104.499210	6.449968	4872.90	209.02	3.00	0.62	-0.17	0.27	107.32	85.79
Berkeley 32	104.513210	6.406164	4188.32	59.47	1.89	0.46	-0.30	0.13	104.43	88.42